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Bibliography of School Buildings, Grounds, and Equipment, Part V

Bureau of Cooperative Research and Field Service
School of Education
Indiana University, Bloomington, Indiana

HENRY LESTER SMITH, Director
MERRILL T. EATON, Assistant Director

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The current literature section of the
Wilson Education Index

Entered as second-class mail matter September 30, 1924, at the post office at Bloomington, Indiana, under the Act of August 24, 1912. Published in January, March, May, July, September, and November of each year, from the University Office, Bloomington, Indiana.

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BULLETIN OF THE SCHOOL OF EDUCATION
INDIANA UNIVERSITY

Bibliography of School Buildings, Grounds, and Equipment
Part V

By
HENRY LESTER SMITH
and
HAROLD E. MOORE

A List of Bulletins in the Field of Education, Indiana University

by
KATHLEEN DUGDALE

Published by the
BUREAU OF COOPERATIVE RESEARCH
AND FIELD SERVICE
Indiana University

Foreword

In January, 1928, the Bureau of Cooperative Research and Field Service published (as Vol. 4, No. 3, of the Bulletin of the School of Education, Indiana University) a comprehensive *Bibliography of School Buildings, Grounds, and Equipment*, which included only references previous to October, 1927. Since that time three supplements to this bibliography have been published, including references to October 1, 1934. The present study, Part V of the bibliography, includes those references between October 1, 1934, and January 1, 1936. The five parts should be used together as there is no overlapping of references.

As was indicated with respect to the former bulletins, this publication is in no sense presented as an exhaustive bibliography on school buildings, grounds, and equipment. The sources in this field are practically unlimited and are increasing with each month's publications. It is almost inconceivable that any single institution should have available all the various books, periodicals, and bulletins providing information in the field.

In any publication containing so many references there are certain to be some errors. The authors will greatly appreciate the cooperation of those who use this bibliography in reporting whatever mistakes and inaccuracies are discovered.

Acknowledgment is here made for the help provided by others in the collecting, annotating, and editing of the material included in Part V. Of special value has been the assistance of Mrs. Ray Mattingley and Charles Ross Dean in locating the references. The authors wish to commend the library staff of Indiana University for their helpful cooperation in making available the materials needed in the conduct of the study. To Miss Kathleen Dugdale, assistant to the editor in the School of Education, should be given credit for much of the checking and editing of this publication.

H.L.S.
H.E.M.

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Introduction

SCOPE OF THE BIBLIOGRAPHY

1. This bibliography is published in five parts. The Smith-Chamberlain bibliography (Vol. 4, No. 3), which covers material in the field previous to October, 1927, is to be known as Part I. Parts II and III are organized as a single unit and include references on the subject which appeared between October 1, 1927, and April 1, 1932: Part II (Vol. 9, No. 2) includes references appearing during this period which were classified in the first eleven major divisions as listed in the Table of Contents of Part I, and Part III includes those falling in the last eleven major divisions. Part IV is limited to the period beginning April 1, 1932, and ending October 1, 1934, and includes references in all major divisions. Part V, the present study, includes all references between October 1, 1934, and January 1, 1936.

2. The numbering of references is consecutive throughout all five parts of the bibliography. Part I includes references 1 to 2263; Part II, references 2264 to 3761; Part III, references 3762 to 4613; Part IV, references 4614 to 6084; and Part V, references 6085 to 6673.

3. References dealing with private educational institutions on the elementary and secondary level are included in this bibliography. References dealing with institutions of higher learning have been excluded except where such references deal also with elementary or secondary school provisions or where there is possible an application of principles or practices to elementary or secondary school buildings. *A Bibliography of College and University Buildings, Grounds, and Equipment,* by Henry Lester Smith and Forest Ruby Noffsinger, was published in 1934 as Vol. 10, No. 2, of the Bulletin of the School of Education.

4. Publications of city boards of education, state departments of education, and schoolhousing bureaus have been included when available, even though their nature was considered such as to make them of local rather than general importance.

ORGANIZATION

All references have been placed within the classification developed in Part I with the exception of a few newly-developed subtopics. The decision as to the proper classification of a particular reference was in many cases very difficult to make. In all such cases the reference was originally listed under the topic receiving the greatest emphasis in the reference and listed by number in the cross-index under all other topics treated in the reference. The following statements will be of assistance to the user of this bibliography:

1. All references are numbered consecutively throughout Parts I, II, III, IV, and V without regard for the divisions of the bibliography.

2. In so far as possible, duplications have been avoided. Each reference should appear once and once only. Any single number stands for one and the same reference in all five bulletins.

3. Wherever the same material or practically the same material was found to have been published in two or more periodicals, bulletins, or other

publications, the reference is listed but once and notation is made of the various publications of the same material.

4. Where there was found a series of articles having the same or slightly different titles by the same author, the entire series is included under a single reference number.

5. References of a general nature are classified under one of the twenty-two major headings, and all others appear under the minor divisions for which they seemed to have most significance.

6. Within each division the references have been arranged alphabetically according to author. Where the author is not indicated, the reference is assigned to the magazine in which it appears. Where more than one reference by the same author is found under any division, the references are arranged in chronological order.

7. At the close of each division appears a series of cross-index numbers. These numbers refer the reader to other references on the same subject which are listed in other divisions of the five bulletins which make up the complete bibliography. This device aids the student in locating all the material pertaining to the subject under investigation.

8. Bibliographical data for magazine articles appear in the following order: Author (or magazine), name of article, magazine, volume number, pages, month, day of month (if used), and year.

9. Bibliographical data for books appear in the following order: Author, title of book, publisher, place of publication, date of publication, and total number of pages. Where a section of a book is considered alone, the title of this section follows the name of the author and precedes the title of the book. In this case the exact pages of the section considered are given following the name of the book.

10. Bulletins, reports, and like material have been made to conform as closely as possible to this system. Uniformity has been attempted throughout.

11. Abbreviations employed in each part are explained in that bulletin following the Introduction.

SUGGESTIONS FOR USING THE BIBLIOGRAPHY

1. The student interested in school buildings should have access to all five parts of the bibliography.

2. The reader interested in a survey of the whole field should select for study the references in Division I.

3. The individual interested in a particular subject, but whose time is limited, should consult those references under the proper division in each bibliography which, according to the annotation, seem to be the most important, and as many additional ones as he deems desirable.

4. For a thorough study of a particular division or subdivision of the work, the reader should consult all references listed under the proper heading in all bibliographies and, in addition, all the cross-index references under the division or subdivision.

5. Where the reader is interested in a minor detail which has not been given a place in the Table of Contents, he should determine the division in the Table of Contents under which the topic logically falls and select through the title of the reference or the annotation those references for

further investigation which promise treatment of the chosen topic. No topic index other than the Table of Contents has been included because the task of compiling such an index, adequate for student use, was considered not within the scope of the present study.

ABBREVIATIONS AND PUBLISHERS OF PERIODICALS

Am Arch—American Architect and Architecture. (American Architect before June, 1936.) Hearst Magazines, Inc., 572 Madison Ave., New York City.

Am Childh—American Childhood. Milton Bradley Co., 74 Park St., Springfield, Mass.

Am City—The American City. American City Magazine Corp., 470 Fourth Ave., New York City.

Am J Hygiene—American Journal of Hygiene. School of Hygiene and Public Health of the Johns Hopkins University, Baltimore, Md.

Am J Pub Health and Nation's Health—American Journal of Public Health and the Nation's Health. American Public Health Association, 50 W. 50th St., New York City.

Am Library Assn Bul—American Library Association Bulletin. American Library Association, 520 N. Michigan Ave., Chicago.

Am M of Art—American Magazine of Art. American Federation of Arts, Barr Bldg., Farragut Sq., Washington, D.C.

Am Sch and Univ—The American School and University: a Yearbook of Educational Buildings and Grounds. American School Publishing Corp., 470 Fourth Ave., New York City.

Am Sch Bd J—American School Board Journal. Bruce Publishing Co., 540 N. Milwaukee St., Milwaukee.

Arch R—The Architectural Review: a Magazine of Architecture and the Arts of Design. The Architectural Press, 9 Queen Anne's Gate, Westminster, S.W. 1, London, England.

Arch Rec—Architectural Record. F. W. Dodge Corp., 115-19 W. 40th St., New York City.

Athletic J—Athletic Journal. The Athletic Journal Publishing Co., 6858 Glenwood Ave., Chicago.

Balance Sheet—The Balance Sheet: a Magazine for Commercial Teachers. South-Western Publishing Co., Editorial office, 201-3 W. Fourth St., Cincinnati.

Baltimore Bul Educ—Baltimore Bulletin of Education: a Journal of the Public Schools of Baltimore, Maryland. Bureau of Measurement, Statistics, and Research, 3 E. 25th St., Baltimore.

Bul Dept El Sch Prin—Bulletin of the Department of Elementary School Principals of the National Education Association. Department of Elementary School Principals of the National Education Association, 1201 16th St., N.W., Washington, D.C.

Calif J Sec Educ—California Journal of Secondary Education. California Society of Secondary Education, Rooms 9-10, Haviland Hall, Berkeley, Calif.

Childh Educ—Childhood Education. Association for Childhood Education, 1201 16th St., N.W., Washington, D.C.

Cost and Mgt—Cost and Management. The Canadian Society of Cost Accountants and Industrial Engineers, 301 Mackay Bldg., 66 King St. E., Hamilton, Canada.

Country Life—Country Life-American Home Corp., 444 Madison Ave., New York City.

Dept Superintendence Yrbk—Yearbook of the Department of Superintendence. Department of Superintendence of the National Education Association, 1201 16th St., N.W., Washington, D.C.

Eastern Comm Teach Assn Yrbk—Eastern Commercial Teachers' Association Yearbook. Eastern Commercial Teachers' Association, 253 Lexington Ave., New York City.
Educ—Education. Palmer Co., 370 Atlantic Ave., Boston.
Educ Admin and Sup—Educational Administration and Supervision including Teacher Training. Warwick and York, Inc., Baltimore.
Educ Digest—Education Digest. Education Digest, P.O. Box 100, Ann Arbor, Mich.
Educ Law and Admin—Educational Law and Administration. Julius B. Tietz, 6 E. 4th St., Cincinnati.
Educ Outlook—Educational Outlook. School of Education, University of Pennsylvania, Philadelphia.
Educ Rec—Educational Record. American Council on Education, 744 Jackson Place, N.W., Washington, D.C.
Educ Res Bul—Educational Research Bulletin. Bureau of Educational Research, Ohio State University, College of Education, Room 203, Columbus.
Elec W—The Electrical World. McGraw-Hill Publishing Co., Inc., 330 W. 42nd St., New York City.
El Sch J—Elementary School Journal. Department of Education, University of Chicago, 5835 Kimbark Ave., Chicago.

Factory Mgt and Maintenance—Factory Management and Maintenance. McGraw-Hill Publishing Co., Inc., 330 W. 42nd St., New York City.
Far Eastern R—The Far Eastern Review: Engineering, Commerce, Finance. The Far Eastern Review, Shanghai, China.
Furniture Manufacturer—The Furniture Manufacturer. Vincent Edwards and Co., 342 Madison Ave., New York City.

Good Housekeeping M—Good Housekeeping Magazine. Hearst Magazines, Inc., 57th St. and Eighth Ave., New York City.

Heat and Ven—Heating and Ventilating. The Industrial Press, 148 Lafayette St., New York City.
H Points—High Points in the Work of the High Schools of New York City. Board of Education, 500 Park Ave., New York City.
H Sch Teach—High School Teacher. Scholastic Corp., Chamber of Commerce Bldg., Pittsburgh.
Hygeia. American Medical Association, 535 Dearborn St., Chicago.

Illum Eng Soc Transac—Illuminating Engineering Society Transactions. Illuminating Engineering Society, 51 Madison Ave., New York City.
Ind and Eng Chem—Industrial and Engineering Chemistry. American Chemical Society, Mills Bldg., 1709 G St., N.W., Washington, D.C.
Ind Arts and Voc Educ—Industrial Arts and Vocational Education. Bruce Publishing Co., 540 N. Milwaukee St., Milwaukee.
Ind Educ M—Industrial Education Magazine. Manual Arts Press, 237 N. Monroe St., Peoria, Ill.
Indiana Div Pub Health Monthly Bul—Indiana Division of Public Health Monthly Bulletin. Editor, Monthly Bulletin, State House Annex, Indianapolis.
Instructor—The Instructor. F. A. Owen Publishing Co., Normal Park Dansville, N.Y.

J Adult Educ—Journal of Adult Education. American Association for Adult Education, 60 E. 42nd St., New York City.
J Am Med Assn—Journal of the American Medical Association. American Medical Association, 535 Dearborn St., Chicago.
J Bus Educ—The Journal of Business Education: a Magazine for Teachers of Business Subjects. Trethaway Publishing Co., Inc., 512 Brooks Bldg., Wilkes-Barre, Pa.
J Chem Educ—Journal of Chemical Education. Journal of Chemical Education, 20th and Northampton Sts., Easton, Pa.
J Educ—Journal of Education. New England Publishing Co., 6 Park St., Boston.

J Educ (London)—Journal of Education (London). Oxford University Press, Southfield House, Oxford, England.
J Educ Res—Journal of Educational Research. Public School Publishing Co., Bloomington, Ill.
J Health and Phys Educ—The Journal of Health and Physical Education. American Association for Health, Physical Education and Recreation, 311 Maynard St., Ann Arbor, Mich.
J Higher Educ—Journal of Higher Education. Bureau of Educational Research, Ohio State University, Columbus.
J Home Econ—Journal of Home Economics. American Home Economics Association, 620 Mills Bldg., Washington, D.C.
J Ind Hygiene and Toxicology—Journal of Industrial Hygiene and Toxicology. The Williams and Wilkins Co., Baltimore.
J Phys Educ—Journal of Physical Education. Physical Director's Society of the Young Men's Christian Associations of North America, 347 Madison Ave., New York City.
Jr-Sr H Sch Clearing House—Junior-Senior High School Clearing House. Clearing House, 207 Fourth Ave., New York City.

Ladies' Home J—Ladies' Home Journal. Curtis Publishing Co., Independence Sq., Philadelphia.
Library J—Library Journal. R. R. Bowker Co., 62 W. 45th St., New York City.
Library Occurrent. Indiana Library Trustees' Association, Lincoln Hotel, Indianapolis.
Library Q—Library Quarterly. The University of Chicago Press, Chicago.
Literary Digest—The Literary Digest. The Literary Digest, Inc., 233 Fourth Ave., New York City.

Manufacturers Rec—Manufacturers Record. Manufacturers Record Publishing Co., Manufacturers Record Bldg., Commerce and Water Sts., Baltimore.
Mind and Body—Mind and Body: a Monthly Journal Devoted to Physical Education. Mind and Body Publishing Co., New Ulm, Minn.
Mus Educ J—Music Educators Journal. Music Educators National Conference, 64 E. Jackson Blvd., Chicago.

Nat Assn Pub Sch Bus Officials—Proceedings of the National Association of Public School Business Officials. National Association of Public School Business Officials, Palmer House, Chicago.
Nat Educ Assn J—Journal of the National Education Association. National Education Association, 1201 16th St., N.W., Washington, D.C.
Nat Educ Assn Proc—National Education Association of the United States, Addresses and Proceedings. National Education Association, 1201 16th St., N.W., Washington, D.C.
Nat Educ Assn, Res Bul—Research Bulletin of the National Education Association. Research Division, National Education Association, 1201 16th St., N.W., Washington, D.C.
Nation's Sch—Nation's Schools. Nation's Schools Publishing Co., 919 N. Michigan Ave., Chicago.
Nat Safety News—National Safety News. National Safety Council, Inc., 20 N. Wacker Dr., Chicago.
Nat Soc for Study of Educ—National Society for the Study of Education Yearbook. Public School Publishing Co., Bloomington, Ill.
New Outlook. Outlook Publishing Co., Inc., 515 Madison Ave., New York City.
North Central Assn Q—North Central Association Quarterly. North Central Association of Colleges and Secondary Schools, 1439 University Elementary School Bldg., Ann Arbor, Mich.

Parents' M—Parents' Magazine. The Parents' Institute, Inc., 52 Vanderbilt Ave., New York City.
Personnel J—Personnel Journal. Personnel Research Federation, Lincoln Bldg., 60 E. 42nd St., New York City.

Platoon Sch—Platoon School. National Association for the Study of the Platoon or Work-Study-Play School Organization, 17th Ave. and Taney St., Gary, Ind.

Plumbing and Heat Trade J—Plumbing and Heating Trade Journal. The Angus Co., Inc., 515 Madison Ave., New York City.

Prac Home Econ—Practical Home Economics. The Lakeside Publishing Co., 468 Fourth Ave., New York City.

Progressive Educ—Progressive Education: a Review of the Newer Tendencies in Education. Progressive Education Association, 221 W. 57th St., New York City.

Pub Health Nursing—Public Health Nursing. National Organization for Public Health Nursing, Inc., 50 W. 50th St., New York City.

Recreation. National Recreation Association, 315 Fourth Ave., New York City.

R Educ Res—Review of Educational Research. American Educational Research Association, 1201 16th St., N.W., Washington, D.C.

Res Q Am Phys Educ Assn—Research Quarterly of the American Physical Education Association. The Ann Arbor Press, 317 Maynard St., Ann Arbor, Mich.

Safety Educ—Safety Education: a Magazine of the Good Adventure. Education Division of the National Safety Council, 20 N. Wacker Dr., Chicago.

Sch Activities—School Activities. School Activities Publishing Co., 1515 Lane St., Topeka, Kan.

Sch and Soc—School and Society. The Science Press, Lancaster, Pa.

Sch Arts M—School Arts Magazine. School Arts, Printers Bldg., Worcester, Mass.

Sch Executives M—School Executives Magazine. The School Executive, 470 Fourth Ave., New York City.

Sch Life—School Life. Superintendent of Documents, Government Printing Office, Washington, D.C.

Sch Mgt—School Management. School Management, 9 E. 40th St., New York City.

Scholastic—Scholastic: the American High School Weekly. Scholastic Corp., 430 Kinnard Ave., Dayton.

Sch R—School Review: a Journal of Secondary Education. Department of Education, University of Chicago, 5835 Kimbark Ave., Chicago.

Sch Sci and Math—School Science and Mathematics. School Science and Mathematics, W. F. Roecker, 1439 14th St., Milwaukee.

Sci Educ—Science Education. Science Education, C. M. Pruitt, Business Manager, College Station, Stillwater, Okla.

Sierra Educ News—Sierra Educational News. California Teachers Association, 155 Sansome St., San Francisco.

Soc Sci—Social Science. Social Science Publishing Co., 450 Ahnaip St., Menasha, Wis.

Soc Studies—The Social Studies. McKinley Publishing Co., 1021 Filbert St., Philadelphia.

Special Libraries. The Special Libraries Association, Publication Office, 10 Ferry St., Concord, N.H.

Survey—The Survey. Survey Associates, Inc., 112 E. 19th St., New York City.

Tax Digest—The Tax Digest. California Taxpayers' Association, Inc., 775 Subway Terminal Bldg., Los Angeles.

Teach Col Rec—Teachers College Record. Bureau of Publications, Teachers College, Columbia University, 525 W. 120th St., New York City.

Times Educ Supplement—The Times (London) Educational Supplement. Times Educational Supplement, Printing House Sq., E.C. 4, London, England.

Univ Mich Sch Educ Bul—University of Michigan School of Education Bulletin. The Ann Arbor Press, Ann Arbor, Mich.

Western Hospital R—Western Hospital Review. Association of Western Hospitals, Hotel Whitcomb Bldg., 1231 Market St., San Francisco.

Wilson Bul—The Wilson Bulletin. Volta Bureau, 1537 35th St., N.W., Washington, D.C.

Yrbk of Sch Law—The Yearbook of School Law. American Council on Education, 744 Jackson Place, Washington, D.C.

OTHER ABBREVIATIONS USED

abs—abstract
admin—administration
Ag—August
agri—agriculture, agricultural
Am—American
Ap—April
arch—architect, architectural
assn—association
bd—board
bds—boards
bibliog—bibliography
bldg—building
Bros.—Brothers
bul—bulletin, bulletins
bur—bureau
bus—business
Cath—Catholic
Ch.—chapter
childh—childhood
cir—circular
Co.—company
col—college
com—committee, committees
comm—commission, commissions
comp.—compiler
contr—contribution, contributions
corp—corporation
D—December
dept—department
diag—diagram, diagrams
dir—director, directors
div—division
econ—economics
(ed) editorial
ed—edition
ed.—editor; eds.—editors
educ—education, educational, educators
el—elementary
elec—electric, electrical
eng—engineer, engineering
ext—extension
F—February
fig—figure, figures
fold—folder, folders
found—foundation
ft.—foot
gen—general
gov't—government
h—high
heat—heating
il—illustration, illustrations
illum—illuminating
Inc.—incorporated
ind—industrial
inst—institute
instr—instruction
inter—international
intro.—introduction
J—Journal
Ja—January
Je—June
Jl—July
jr—junior
Ltd.—limited
M—magazine
math—mathematics
mgt—management
mim—mimeographed
Mr—March
ms—manuscript
mus—music
My—May
N—November
nat—national
no.—number; nos.—numbers
O—October
p.—page, pages
pam—pamphlet, pamphlets
phys—physical
prim—primary
prin—principal, principals
print—printer, printers
proc—proceedings
pt.—part
pub—public
publ—publication, publications, publishing
Q—quarterly
R—review
rec—record
ref—reference
res—research
rev—revised
S—September
sch—school, schools
sci—science, scientific
sec—secondary
sec'y—secretary
soc—society, social
sociol—sociology, sociological
sr—senior
supt—superintendent, superintendence
teach—teachers, teaching
trans.—translated, translator
transac—transactions
univ—university
U.S.—United States
ven—ventilating
voc—vocational
vol—volume
vs.—versus
W—world
yrbk—yearbook

I. General References

6085. Committee on the School Plant. "The school plant." *R Educ Res* 5:333-439, O '35

Covers housing needs, heating, ventilation, sanitation, equipment, playgrounds, insurance, operation and care of the school plant, construction materials, trends in school plant planning, and needed research in the field of school buildings and equipment.

6086. Fletcher, C. E. "Buildings and equipment." In *The education of the adolescent in Australia*, by P. R. Cole, Ch. 9, p. 296-319. Brown, Prior and Co., Pty, Ltd., Victoria, Australia, 1935

Reviews post-primary school buildings, grounds, and equipment in Australia.

6087. Hamon, Ray L. "Supervising school building construction." *Sch Executives M* 54:326-8, Jl '35

Sets forth the need of a supervisor of construction to avoid having a building that is unsatisfactory because of faulty materials and construction.

6088. Licht, Lawrence C. "Beauty and feasibility feature suburban high school." *Nation's Sch* 15:40-7, Ja '35. il, plans

Gives an extensive description of the plans and finished structures of the Dwight Morrow High School, Englewood, New Jersey.

6089. Misner, Frank Marion. *Extra costs and incidental costs in the erection of school buildings.* Columbia Univ, Teach Col, Contr to Educ no. 624, New York, 1934. tables, 79 p.

Reports a study of the cost of changes in the old section of a building, changes in equipment or its placement, tardy consultation with advisory or regulatory bodies, architect's omissions and errors, audio-visual aid equipment, and architect's fees on extra costs not covered by unit prices.

6090. Sibley, Ernest. "School architecture that will live." *Am Sch Bd J* 90:15-16, 75, Ja '35. il

Enumerates salient problems relating to school building.

II. Historical Development and Modern Characteristics of American School Architecture

6091. *American School Board Journal.* "Present conflicts and tendencies in school architecture." *Am Sch Bd J* 90:50, Ja '35

Condemns the practice of employing "local talent" at the expense of a well-planned school building and approves, as a sign of growth, the controversy over modern and traditional forms of architectural design.

6092. "A trend in the field of school architecture." (ed) *Am Sch Bd J* 90:43, My '35

Condemns so-called dress-pattern architectural design and employment of local architects who are inexperienced in the planning of school buildings.

6093. Holmes, Pauline. "Location of the Boston Latin School buildings." In *A tercentenary history of the Boston Public Latin School, 1635-1935,* p. 232-51. Harvard Univ Press, Cambridge, Mass., 1935. il, plans, maps
Gives a historical account of the location and types of buildings of the Boston Public Latin School from 1635 to 1935.

6094. *Hygeia.* "Reading, riting, and rithmetic—then and now." *Hygeia* 13:843, S '35. il
Presents illustrations of old log schoolhouses and of modern schoolhouses.

6095. Noffsinger, Forest R. "A century of progress in schoolhouse construction." *Am Sch Bd J* 89:39-40, D '34; 90:21-2, Ja '35; 37-8, Mr '35; 36, Ap '35. il
Presents the stages in the development of school buildings with respect to orientation, type of building, architectural design, general structure, entrances, stairways, and corridors, and gives a history of building types in the United States from 1856-1900.

6096. "A century's progress in school heating and ventilation." *Am Sch Bd J* 91:38-9, Jl '35; 37-8, S '35; 36, N '35
Gives a history of the development of heating and ventilating systems in school buildings from 1770-1870.

6097. *Review of Educational Research.* "Recent trends in school plant planning." *R Educ Res* 5:393-405, O '35
Summarizes distinct trends in school plant planning.

Cross-index

6085 6128

III. Architectural Styles and Building Types

6098. *American City.* "High school, Greenwich, Conn." *Am City* 50:45, D '35. il
Presents a single exterior view of a high school in Greenwich, Connecticut.

6099. *Architectural Record.* "School buildings." *Arch Rec* 77:332-3, My '35. il
Presents pictures of the Thomas A. Edison Junior High School in Los Angeles, California, a district grade school at Bonneville Dam, 40 miles east of Portland, Oregon, and the San Diego State Teachers College in San Diego, California.

6100. Barney, W. Pope. "Modern architectural approach is logical in school construction." *Nation's Sch* 15:42-5, Mr '35. il
Defends modern architecture in several new French and German schools.

6101. Callender, John Hancock. "Functional approach to the design of school buildings." *Am Sch and Univ* 7:42-3, 1935. diag
Presents in graphic form an analysis of the functional organization of the school.

6102. Engelhardt, N. L. "Trends in school planning." *Sch Executives M* 54:102-5, D '34. il

Challenges school architects to create a school that is beautiful as well as practical. States that the problem of the school architect is to plan the school building so that as educational changes occur the school plant will not impede the progress of the social order.

6103. Engelhardt, N. L., and Uhl, W. L. "Planning windows for high-school buildings." *Am Sch and Univ* 7:44-6, 1935. diag

Consists of tabulation of data (national in scope) of the types of windows used in high school buildings from the years 1924-31.

6104. Getter, R. A., and Warren, Richard B. "Novel trends in school building." *Sch Executives M* 54:123, D '34

Points out the features of the school buildings of today that make them beautiful structures as well as very practical ones.

6105. Hamon, Ray L. "Structural changes which modern educational ideas may involve." *Am Sch and Univ* 7:38-41, 1935. il, diag

Discusses structural changes involving room size alteration, window arrangement, and built-in storage facilities.

6106. Harris, Glenn C., and Cummings, George Bain. "When tradition joins with modern needs." *Nation's Sch* 16:42-6, D '35. il, plans

Discusses the combining of any traditional style with modern structural efficiency.

6107. *Journal of Education.* "Streamlined schoolhouses wanted by Newton planner." *J Educ* 118:425, O 7, '35

Sets forth a plan for streamlining schoolhouse interiors and exteriors, as put into practice in the Nevada street grade school in Newtonville, Massachusetts.

6108. Lescaze, William. "Modern architecture for public schools." *Sch Executives M* 55:136-7, 153, D '35. il

Emphasizes that schools should be both beautiful and practical. Economical, open, sunny buildings are made possible by the intelligent use of materials of today.

6109. Marsh, Reginald E. "The modern trend in school construction." *Am Sch and Univ* 7:134-7, 1935. il, charts

Points out the usual defects of wall construction and new methods for overcoming them. Roofs and floor construction, wainscoting, acoustics, and color are dealt with in the same manner.

6110. *Nation's Schools.* "Lima High School, Lima, Peru." *Nation's Sch* 14:43, O 34. il

Presents an illustration of the Lima High School in Lima, Peru.

6111. "Auburn Senior High School, Auburn, N.Y." *Nation's Sch* 14:41, N '34. il

Presents an illustration of the Auburn Senior High School in Auburn, New York.

6112. "Solomon Juneau High School as the architects see it." *Nation's Sch* 14:46-8, N '34. il, plans

Gives rather exacting building and space provision measurements and slightly technical description of the Solomon Juneau High School.

6113. "Phoenix Union High School, Phoenix, Ariz." *Nation's Sch* 14:39, D '34. il
Presents an illustration of the Phoenix Union High School in Phoenix, Arizona.

6114. "Dwight Morrow High School, Englewood, N.J." *Nation's Sch* 15:39, Ja '35. il
Presents an illustration of the Dwight Morrow High School in Englewood, New Jersey.

6115. "Main entrance, Locust Valley School, Locust Valley, Long Island, New York." *Nation's Sch* 15:45, F '35. il
Presents an illustration of the main entrance to the Locust Valley School in Locust Valley, Long Island, New York.

6116. "Is modern architecture as crazy as it looks?" *Nation's Sch* 15:41, Mr '35. il
Presents black and white caricatures of modern school plants.

6117. "Main entrance, Monticello Junior High School, Cleveland Heights, Ohio." *Nation's Sch* 15:45, Ap '35. il
Presents an illustration of the main entrance to the Monticello Junior High School, Cleveland Heights, Ohio.

6118. "Main entrance, Merritt Memorial School, Cresskill, N.Y." *Nation's Sch* 15:45, My '35. il
Presents an illustration of the main entrance to the Merritt Memorial School in Cresskill, New York.

6119. "East High School, Denver." *Nation's Sch* 15:43, Je '35. il
Presents an illustration of the East High School in Denver, Colorado.

6120. "English High School, Lynn, Massachusetts." *Nation's Sch* 16:41, Jl '35. il
Presents an illustration of the auditorium entrance to the English High School in Lynn, Massachusetts.

6121. "Pauahi Hall, Punahou School, Honolulu, Hawaii." *Nation's Sch* 16:39, Ag '35. il
Presents an illustration of one of the older buildings in Punahou School, the leading private undenominational school in Hawaii.

6122. "Norwich Free Academy, Norwich, Connecticut." *Nation's Sch* 16:41, S '35. il
Presents an illustration of the commercial building at the Norwich Free Academy in Norwich, Connecticut.

6123. "Unadilla Central School, Unadilla, N.Y." *Nation's Sch* 16:41, O '35. il
Presents an illustration of the Unadilla Central School at Unadilla, New York.

6124. "White Plains High School, White Plains, N.Y." *Nation's Sch* 16:43, O '35. il
Presents an illustration of one of the entrances to the White Plains High School in White Plains, New York.

6125. Smith, Howard Leland. "Designed to meet the children's needs." *Nation's Sch* 16:44-7, N '35. il, plans
Describes equipment and structural plans for an efficient elementary school.

6126. *Times Educational Supplement.* "Schools of the future." *Times Educ Supplement* 1018:373, N 3, '34
Describes the approved plans of the London County Council for schools of the future—bungalow one-story type with ample play ground space, movable walls to make open air schools, etc.

6127. Tooker, E. P. "Built for tomorrow's needs." *Nation's Sch* 16:44-7, O '35. il, plans
Tells how an extensionable school building was built at Quogue, Long Island, New York.

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IV. The Building Shortage and the Status of Building Operations

6128. *Research Bulletin of the National Education Association.* "The nation's school building needs." *Nat Educ Assn, Res Bul* 13:1-33, Ja '35. tables
Deals with four phases of school building construction: I, recent trends (in amount of money spent) in school building construction; II, school building needs; III, school building construction since 1918; IV, the federal government and the school building problem.

6129. *School Management.* "904 new public school buildings granted $103,380,525 by Public Works Administration." *Sch Mgt* 3-4:7, S-O '34. plans
Gives a summary of all the PWA allotments for schools as of August 14, 1934. Plans of the New Auburn Senior High School at Auburn, New York, are included.

6130. "A symposium on school building brings out facts concerning the modern school's needs, education's budget, and architect's proposals." *Sch Mgt* 3-4:102-4, F '35. il, plans, chart
Reports the results of a questionnaire seeking practical criticism of present school buildings. A description of a modern suburban elementary school is given.

6131. Spencer, F. H. "Now is the time to rebuild our schools." *Times Educ Supplement* 1058:277, Ag 10, '35
Advocates a building program for England. Inadequacies of the present schools are pointed out very forcefully.

6132. *Survey.* "Fixing up the schools." *Survey* 71:219-20, Jl '35
Gives a survey of repairs made on old buildings and of new buildings constructed by FERA.

6133. Viles, N. E. "A national rural school housing program." *Nation's Sch* 14:53, O '34
Urges a program for rehousing rural schools.

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V. Preliminary Considerations and the Development of the Building Program

6134. Andersen, Erik A. "When you plan a schoolhouse." *J Educ* 118:125-6, Mr 4, '35
Makes some general suggestions on the planning of a modern schoolhouse.

6135. *School Management.* "Important features in a new school building." *Sch Mgt* 3-4:158, Ap '35
Gives important points, plans, and specifications for consideration in planning a new school building.

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SCORE CARDS AND BUILDING MEASUREMENT

6136. *Review of Educational Research.* "Technics for determining housing requirements in elementary, junior, and senior high schools." *R Educ Res* 5:337-43, O '35
Cites references on "special rooms" and summarizes these references. Building standards, plans, and techniques in building are included.

6137. Wade, J. T. *Measurement of the secondary school as a part of the pupil's environment.* Columbia Univ, Teach Col, Bur of Publ, New York, 1935. tables, bibliog, 68 p.
Constructs a scale for measuring the secondary school as a part of the pupil's environment. Includes items on school sites and grounds, type of building construction, the general equipment, classrooms, school size, library, cafeteria, auditorium and assembly, school office, and sanitation.

STUDIES IN POPULATION AND PUPIL ACCOMMODATION

6138. Briscoe, Alonzo Otis. *The size of the local unit for administration and supervision of public schools.* Columbia Univ, Teach Col, Contr to Educ no. 649, New York, 1935. 110 p.
Surveys school systems for the purpose of determining optimum size for efficient operation—an important consideration for reorganization of schools.

6139. *High Points in the Work of the High Schools of New York City.* "Statistical summary of American education." *H Points* 17:63-4, Mr '35
Includes facts about school buildings and the value of school property, as taken from a government survey.

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ADAPTATION OF THE BUILDING TO SPECIFIC EDUCATIONAL NEEDS

6140. Anderson, Homer W. "Adapting the high school building to the school program." *Nat Assn Pub Sch Bus Officials* 24:126-31, 1935.
Suggests that new curriculum trends be given consideration in building new plants.

6141. Brooker, John W. "The school plant in a redirected program." *Nat Educ Assn Proc* 73:412-13, 1935
Lists attributes that modern rural school building should possess to meet newer types of school programs.

6142. Engelhardt, N. L. "Community and school plant planning." *Sch Executives M* 55:46-8, 66, O '35
Suggests that a new school plant should provide for adult as well as child activities in its planning for the auditorium, gymnasium, etc.

6143. Essex, Don L. "Planning the central rural school." *Sch Executives M* 55:6-9, 32, S '35. il, chart
Suggests things to be considered when planning a central rural school.

6144. Friton, Ernest T. "School building construction." *Nat Assn Pub Sch Bus Officials* 24:133-8, 1935
Emphasizes that architectural designs should conform to needs of the community.

6145. Holy, Russell A. *The relationship of city planning to school plant planning.* Columbia Univ, Teach Col, Contr to Educ no. 662, New York, 1935. 135 p.
Discusses points of contact between city and school plant planning, the school plant as it has been considered in city planning in the past, cooperation between school authorities and city planning commissions in 11 communities, and the school plant as a part of the city of the future.

6146. Long, Frank M. "Facilities for an activities program." *Sch Executives M* 54:170-1, 183, F '35. il
Discusses classroom furniture and equipment in terms of an activity program.

6147. Moehlman, Arthur B. "Widening the uses of the school plant." *Nation's Sch* 14:40-4, D '34. il
Sums up the problems confronted in trying to provide for public education in accord with the needs of each generation.

6148. Nelson, Leslie W. "The school plant in the small community plan." *Sch Executives M* 54:310-11, Je '35. il
Gives the steps necessary in planning a site and design of the school building for the best interests of the community concerned.

6149. Otto, H. J. "Elementary school plant." In his *Elementary School Organization and Administration,* pp. 570-603. D. Appleton-Century Co., New York, 1934. il, plans, tables
Shows the significant relationship of the school plant to the administrative organization. Describes adjustment of classrooms to meet curricular needs of the elementary school.

6150. Theisen, W. W. "Curriculum needs determined plan of Solomon Juneau High School." *Nation's Sch* 14:42-6, N '34. il, plans
Describes various uses to which specially built high school rooms can be put, including multiple purpose science room desks and the use of the cafeteria for a study hall.

6151. *Times Educational Supplement.* "What size should a school be?" *Times Educ Supplement* 1020:385, N 17, '34
Discusses size of schools and the pros and cons of a large school organization.

6152. Young, W. S., and Caverly, E. R. "Public relations agencies—the school plant." In Nat Educ Assn, Dept of Superintendence, *Official report*, p. 242-3. Nat Educ Assn, Washington, D.C., 1934
Comments on the use of school buildings as an agency for creating in communities a more wholesome attitude toward schools and of the schools toward the communities which support them.

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BUILDING COSTS

6153. Beatty, Willard W. "Can we afford our public schools?" *Parents' M* 10:17, 58-61, N '35. chart
Deals with unit education cost and proportionate value received.

6154. Coons, George D., and Essex, Don L. "The distribution of school-building costs." *Am Sch Bd J* 90:38-9, 77, Je '35
Discusses the percentage distribution of costs in schoolhouse construction and explains how this method may aid the school board. Points out some factors which may result in extreme costs.

6155. Misner, Frank M. "Extra costs and incidental costs in the erection of school buildings." *Teach Col Rec* 36:325-6, Ja '35
Presents the findings and implications of a study on extra and incidental costs in building.

6156. "Eliminating extra costs in construction." *Nation's Sch* 16:45-6, Ag '35
Says that the proper preliminary work, if conducted by experts, will eliminate most of the extra cost of a building project.

6157. Steen, M. M. "Comparative cubage." *Nat Assn Pub Sch Bus Officials* 24:112-15, 1935. tables
Recommends factors to be analyzed in comparative costs of school buildings.

6158. Wiley, Guy E. "Comparing school-building costs." *Am Sch Bd J* 90:17-19, 77, Ja '35. charts, il, tables
Compares the cost of school buildings in Milwaukee, Wisconsin, over a 20-year period (1912-1932).

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THE ABILITY OF THE COMMUNITY TO FINANCE THE BUILDING PROGRAM

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SCHOOL BONDS AND OTHER METHODS OF FINANCING THE BUILDING PROGRAM

6159. *American City.* "The Duluth school board changes the bond picture." *Am City* 50:83, S '35
Tells how the school board at Duluth, Minnesota, saved $50,000 by certain refunding transactions and the selling of new bond issues.

6160. *American School Board Journal.* "The problem of new schoolhouse construction." (ed) *Am Sch Bd J* 90:42, Mr '35
Discusses the nation's school building needs and the possibility of meeting them through federal aid.

6161. "Refinancing school-bond issues." (ed) *Am Sch Bd J* 91:42, Ag '35
Suggests refinancing of bond issues at a lower rate of interest.

6162. Ballou, Frank W. "A sound system of taxation." *Nat Educ Assn Proc* 72:640-1, 1934
Recommends better methods of financing building programs and maintenance of schools.

6163. Gore, William A. "How Hampstead 'sold' its school-bond issue." *Am Sch Bd J* 90:20-1, Ja '35. il
Tells how the board of education at Hampstead, New York, proceeded in the presentation of the new school bond issue.

6164. Hamon, Ray L. "Financing the school plant." *Am Sch Bd J* 91:14, 68, Ag '35. graph
Gives a discussion of four points for the better financing of the school plant.

6165. Highsmith, J. Henry. "North Carolina's state-supported public-school system." *Am Sch Bd J* 91:17-19, N '35. il
Discusses North Carolina's public school system, which is state-supported and state-controlled.

6166. Holbrook, Mary. "How the Normandy school district carried a bond campaign." *Am Sch Bd J* 90:42-3, Ja '35
Tells how a successful bond campaign was carried out in Normandy, Missouri, in 1932, the worst year of the depression.

6167. Holy, T. C. "The school buildings of Ohio." *Sch Executives M* 55:94-6, N '35. il, table
Tells how the public works program stimulated school building in Ohio.

6168. Jenkins, H. E. "Tyler balances the school budget." *Am Sch Bd J* 91:40-1, O '35. il
Tells how the school board at Tyler, Texas, faced with rapid increase in enrollment, balanced the school budget. Cites the administrative measures which made possible the balanced budget.

6169. Moseley, Nicholas. "A school system and federal projects in 1934-35." *Am Sch Bd J* 91:44, 46, O '35. il
Describes federal relief projects at Meriden, Connecticut.

6170. Norton, John K. "The case for federal participation." *Am Sch and Univ* 7:19-21, 1935
Favors federal financial aid for the support of a project which is national in scope. This argument is supported by economic theories. Shows that federal aid for education is not new, and proposes that the administration of education be left to state control.

6171. Overn, A. V. "A statewide pay-as-you-go policy for local building costs." *Nation's Sch* 16:27-8, Ag '35

Presents a plan in which all the people of the state pay for school buildings as they are built, thus saving all interest charges.

6172. *School Life.* "P.W.A. builds for education." *Sch Life* 21:10-12, S '35. il, tables

Shows allotments by the Public Works Administration for nearly 1,000 federal educational projects, totaling close to $133,000,000 in cost.

6173. Van Kleeck, E. R. "School finance and the social problems of population and health." *Am Sch Bd J* 91:15-17, 68-9, Ag '35

Discusses such social problems as poverty, unemployment, increased population, decreased birth rate, physical and mental health, and the relation of these factors to school consolidation, construction, and finance.

6174. Weller, Gerald M. "A plan for state equalization of capital outlays for public school buildings." *Am Sch Bd J* 91:23-4, Ag '35

Suggests a technique by which the tax load of financing capital outlay in school districts can be equalized to provide adequate schoolhousing in every school district.

6175. "Federal aid for school-building construction." *Am Sch Bd J* 91:25-6, 81, N '35

Discusses the major elements of a federal aid plan for school building construction.

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ECONOMIES IN THE BUILDING PROGRAM

6176. *American City.* "Fewer school districts for economy." *Am City* 50:81, Ag '35

Says that a reduction in the number of school districts is a pressing necessity.

6177. *American School Board Journal.* "A magnificent period of schoolhouse construction." (ed) *Am Sch Bd J* 89:42, D '34

Says that charges of extravagance and overbuilding in schoolhousing are almost entirely false.

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FEDERAL AIDS AND GRANTS

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VI. Individual Relationships and Responsibilities

6178. Theisen, W. W. "The modern school building." *Sch Executives M* 54:172-3, 188, F '35. il
Reports a study of the problems facing superintendents and school boards in the selection of architects.

THE SUPERINTENDENT AND HIS STAFF

6179. *Nation's Schools.* "Superintendent's role in school building planning." *Nation's Sch* 14:48, N '34
Recommends that the superintendent seek advice from experts in the field of schoolhouse construction.

THE SCHOOL BOARD

6180. *American School Board Journal.* "Awarding school contracts to the lowest bidder." (ed) *Am Sch Bd J* 90:42-3, Mr '35
Defines the term "responsible bidder."

6181. Schmidt, H. W. "Triumvirate of a school building program." *Nat Assn Pub Sch Bus Officials* 24:102-7, 1935
Discusses the part the board of education should take in a building program and emphasizes the importance of considering the adequacy of finance for present and future obligations.

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THE ARCHITECT, ENGINEER, AND CONTRACTOR

6182. *American School Board Journal.* "Awarding contracts to lowest bidder." (ed) *Am Sch Bd J* 90:50-1, Ja '35
Recommends consideration of the character of the contractor and his ability to complete his contract in a satisfactory manner.

6183. Larson, C. T. "Building schools for the nation." *Nat Assn Pub Sch Bus Officials* 23:149-58, 1934
Emphasizes the fact that architects must be vitally concerned with internal requirements of building in planning school buildings.

6184. Theisen, W. W. "Choosing the school architect." *Nation's Sch* 14:45-6, D '34
States that the authority to erect schools must be taken out of the hands of political bodies and placed in the hands of independent boards of education and their executive officers.

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THE EDUCATIONAL CONSULTANT

6185. Konrad, H. R. "Two building programs—a contrast." *Am Sch and Univ* 7:25-7, 1935
Stresses the advisability of employing educational experts for every building program. The modern method of building planning is emphasized by contrasting it to that used by a small community whose directors were uninstructed in this matter.

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VII. School Codes and Other Legal Provisions Affecting the Building Program

6186. Ackely, Clarence E. "The creation and alteration of school districts." *Yrbk of Sch Law* 3:93-106, 1935

Includes court decisions on the right of taxpayers to vote on the securing of federal loans and issuing of bonds for school building purposes, the maintaining of high schools, and the ownership of property where school districts have been consolidated.

6187. *American School Board Journal.* "California spends millions to 'earthquake-proof' school buildings." *Am Sch Bd J* 90:52, 59, Ja '35. il

Tells how public sentiment forced the legislature of California to set high standards for school buildings, and how school boards met the new requirements of the Field Act.

6188. "Adopt standards for drinking fountains." *Am Sch Bd J* 91:40, Ag '35

Lists the 10 requirements made for the drinking fountain code which was approved by the United States Department of Labor and the American Public Health Association and which will become a part of the general sanitation code approved by the United States Bureau of Public Health.

6189. Brody, Alexander. *The American state and higher education.* Am Council on Educ, Washington, D.C., 1935. 251 p.

Cites the legal and political conditions which affect the operation of higher education, including the administration of funds, construction and maintenance of buildings, control of school property, and the right to borrow money for building purposes.

6190. Chambers, M. M. "Courts uphold new plans for financing school buildings." *Nation's Sch* 15:51-2, My '35

States that the courts have held that a pledging of the income of a building does not create an indebtedness against the state and so does not violate constitutional limitations on state indebtedness.

6191. "The rights and duties of pupils and parents." *Yrbk of Sch Law* 3:7-16, 1935

Includes laws on the provision of transportation facilities.

6192. Coffey, Wilford L. "Rights and obligations of pupils." *Yrbk of Sch Law* 2:9-18, 1934

Includes a statement on the pupil's legal right to use school property.

6193. Day, James W. "School contracts, other than for teaching services." *Yrbk of Sch Law* 2:40-6, 1934

Cites statutes and cases regarding contractor's bonds, the erection and equipment of school buildings, and the employment of lawyers and architects.

6194. "School contracts, other than for teaching services." *Yrbk of Sch Law* 3:61-6, 1935
Cites laws on the purchase of supplies, the employment of legal service and architects, contracts for buildings and improvements, and contractual relations.

6195. Edwards, Newton. *The courts and the public schools.* Univ of Chicago Press, Chicago, 1933. p. 280-401
Includes information on relation of the courts to the acquisition and use of school property, employment of architects, building contracts, reversion of school property to grantor, the contractor's bond, and liability of school districts for damages resulting from negligence or dangerous school facilities.

6196. "The creation and alteration of school districts." *Yrbk of Sch Law* 2:71-9, 1934
States power of the legislature with regard to the creation and alteration of school districts. Includes decisions regarding the responsibility of an annexed district for old school building debt.

6197. Hodgdon, Daniel R. "School property." *Yrbk of Sch Law* 2:32-9, 1934
Comments on the larger use of school property for civic purposes and the responsibility for expenses incurred thereby. Discusses the legal authority of the state superintendent of public instruction with regard to plans and specifications of school plants, the responsibility of the school for paying for all materials used even though illegally furnished, and the law on property reversion when the school is abandoned.

6198. Homan, S. W. "The proposed national grandstand code." *Am Sch and Univ* 7:191, 1935
Consists of national regulations for construction of grandstands.

6199. Keyworth, M. R. "School district obligations." *Yrbk of Sch Law* 2:54-9, 1934
Reviews laws on transfer of school funds; limitations on indebtedness, including that for furnishing buildings; the disposition of indebtedness upon consolidation; and the right to compromise with contractor.

6200. "School district debts." *Yrbk of Sch Law* 3:73-83, 1935
Includes citation of laws relating to indebtedness allowed for school building purposes. Also cites laws and court decisions on the validity of bonds issued for building purposes.

6201. Linn, H. H. "The effect of NRA codes on school buying." *Am Sch Bd J* 90:26-7, My '35
Criticizes the NRA codes, which caused a large increase in the prices of school supplies and equipment.

6202. Lockenour, Roy M. "The tort liability of school districts and school personnel." *Yrbk of Sch Law* 3:67-72, 1935
Cites laws on the liability of public school districts for damages in cases of personal injury resulting from negligence or defective condition of school property.

6203. Malan, C. T. *Indiana school law.* C. E. Pauley and Co., Indianapolis, 1935. 721 p.
Includes sections on the legal status of providing funds for public school buildings and improvements, school equipment and transportation, and proper school buildings for the child's health.

6204. *Nation's Schools.* "Code for drinking fountains." *Nation's Sch* 16:46, Ag '35
Lists the specifications for drinking fountains as sponsored and approved by the United States Public Health Service and the American Standards Association.

6205. Sahlstrom, John W. "Local codes make inadequate provision for school buildings." *Nation's Sch* 14:58-60, N '34
Proposes that the state code, which possesses the necessary powers to regulate all phases of construction, be constituted the sole legal control over local school building operations.

6206. *School Management.* "Modern standards for school service systems." *Sch Mgt* 3-4:86, Ja '35
Discusses essential standards for elementary school building facilities such as lavatories, toilets, water supply, and heating.

6207. Seyfried, J. E. "County school administration." *Yrbk of Sch Law* 3:46-55, 1935
Includes citation to Florida law on the liability of county boards of public education for the purchase price for a parcel of land after they had accepted the deed.

6208. Simmonds, H. J., and Nicholls, A. W. "Acquisition of land." In *Law of education,* Ch. 15, p. 220-30. Sir Isaac Pitman and Sons, Ltd., London, 1933
Discusses legal provisions for the acquisition of lands for educational purposes.

6209. Sohl, C. E. *State control of the location, planning, and erection of public school buildings.* Univ of Pennsylvania, Thesis, Philadelphia, 1934. 373 p.
Surveys what is done by different states in the control of the location, planning, and erection of public school buildings.

6210. Spencer, Carlton E. "The acquisition of real property by school districts." *Yrbk of Sch Law* 3:56-60, 1935
Reviews laws on the acquisition of property for school purposes.

6211. van Duyn, Grover, comp. *School laws of the state of Indiana.* William B. Burford Print Co., Indianapolis, 1935. 514 p.
Contains legal provisions in financing, purchase, and sale of school properties, buildings, and equipment.

6212. Weltzin, J. Frederick. "The tort liability of school districts and of school personnel." *Yrbk of Sch Law* 2:47-53, 1934
Cites decisions regarding the liability of the school districts and personnel for damages or injuries occurring on school property.

6213. Werner, J. C. "Litigation concerning school fire insurance." *Am Sch Bd J* 91:40-1, 58, D '35
Presents a survey of litigation concerning the insurance of school property. Shows that insurance fund laws have thus far been free from litigation concerning possible interpretations.

6214. Yakel, Ralph. "Taxation for public education." *Yrbk of Sch Law* 2:59-70, 1934
Cites cases on property subject to taxation; on the purposes of taxation for schools, including the erection, repairs, and alterations of school buildings; and on the school levy and collection of taxes.

6215. "Taxation for public education." *Yrbk of Sch Law* 3:83-92, 1935
Includes court decisions relative to taxation for school building purposes.

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VIII. Building Materials, Specifications, and Structural Design

6216. Anderegg, F. O. "Calcium hydrosilicate as a building material." *Ind and Eng Chem* 27:1019-21, S '35. il
Introduces calcium hydrosilicate as a building material especially suitable for regions where the atmosphere is high in alkali compounds. It is fireproof, comparatively lightweight, and of reasonable good heat-insulating values.

6217. Breskin, Charles A. "Synthetic plastics." *Ind and Eng Chem* 27:1140-2, O '35. il
Suggests use of plastics for electrical fixtures, switches, plugs, insulators, door knobs and handles, furniture, etc. Plastics are resistant to heat and wear.

6218. Browne, F. L. "Special priming paints for wood." *Ind and Eng Chem* 27:292-8, Mr '35
Discusses the priming paints for wood.

6219. Darsey, V. M. "Preparation of iron and steel for painting." *Ind and Eng Chem* 27:1142-4, O '35
Describes the methods of preparing iron and steel for painting.

6220. Davis, Clarke F. "Structural products in gypsum." *Ind and Eng Chem* 27:1017-19, S '35. il
Tells of the development of gypsum as a building material, especially for wall plaster, structural gypsum products, wall and plaster boards, and lists its advantages. This material is fireproof and obtainable in prefabricated planks, slabs, etc.

6221. Fidler, Cecil. "Terra cotta as applied to modern school buildings." *Nation's Sch* 14:47-9, D '34. il
Lists the advantages and applications of terra cotta wall units and includes illustrations from New York City schools.

6222. Frary, Francis C. "Aluminum as a material for building construction." *Ind and Eng Chem* 27:1128-30, O '35. il
Suggests uses and lists advantages of aluminum in building construction.

6223. Geiger, G. F., and Case, R. E. "Nickel alloys in the architectural field." *Ind and Eng Chem* 27:1130-2, O '35. tables, charts
Points out the advantages of nickel alloys for plumbing fixtures, architectural trim, and roofing. Composition and physical properties are discussed.

6224. Harrison, R. L.; Jones, P. W.; and Shreve, R. Norris. "Rostone operations." *Ind and Eng Chem* 27:1023-6, S '35. il
Describes a new building material known as Rostone for either exterior or interior use. Can be given color and unusual and varied appearance.

6225. Henderson, Robert W. "The cubook: a suggested unit for bookstack measurement." *Library J* 59:865-8, N 15, '34
Suggests the "cubook," an estimate of 4.734 books per lineal foot, as a standard measure to determine necessary shelf space for books. Discusses various shelf sizes.

6226. Hiers, G. O., and Rose, C. H. "Lead in building and construction." *Ind and Eng Chem* 27:1133-5, O '35. il
Points out uses for lead in building and construction. Gives advantages.

6227. Loftus, Frank. "High-lime mortar for leak-proof masonry." *Ind and Eng Chem* 27:1126-7, O '35
Points out the properties of good mortar.

6228. McBurney, Dorman. "Coated fabrics in construction industry." *Ind and Eng Chem* 27:1400-3, D '35. il
Recommends use of rubber- or pyroxylin-coated fabrics for window shades, shower curtains, upholstery, floor coverings, motion picture screens, removable weather stripping, etc. in buildings. Describes tests for evaluating coated fabrics to make possible the use of definite specifications.

6229. Miller, R. A. "Glass in building." *Ind and Eng Chem* 27:1291-3, N '35. il
Mentions new uses of glass in building, e.g., laminated safety glass for partitions; heat-absorbing glass for windows; glass wool, spun glass, or glass silk for insulation; glass bricks, etc.

6230. Milligan, Lowell H. "Abrasive products in the building industry." *Ind and Eng Chem* 27:1123-4, O '35. il
Discusses the uses of abrasive products in making non-slip floors, ramps, stairs, etc.

6231. Morris, M. J. R., and Kautz, Karl. "Stainless steels and vitreous enameled irons in architecture." *Ind and Eng Chem* 27:1135-7, O '35. il
Lists the architectural advantages of steel products for building exteriors.

6232. Palmer, L. A. "How mortars contribute to dry walls." *Arch Rec* 76:377-84, N '34. il, tables
Lists and discusses certain fundamental principles which are applicable to masonry in general.

6233. Rassweiler, C. F. "New products and problems in construction painting." *Ind and Eng Chem* 27:1294-7, N '35. il, chart
Discusses speed of drying, appearance retention, and minimum number of coats for interior paints; the protection of metal, finishes for wood structures and alkaline surfaces, and preserving of appearance in exterior painting.

6234. *Review of Educational Research.* "Types of construction and materials as related to the original cost, maintenance, and operation of school buildings." *R Educ Res* 5:383-7, O '35
Names six types of school building construction (according to materials and method of assembly) and discusses floors, roofs, windows, sanitation, wiring, etc.

6235. Rhodes, E. O., and Hyde, E. H. "Tar products for water- and damp-proofing." *Ind and Eng Chem* 27:1408-10, D '35. il
Discusses tar products for water-proofing roofs, basements, etc.

6236. Scales, Walter H. "Wood has service to perform in school building." *Nation's Sch* 16:47-9, Ag '35. il
Gives the uses of wood in school buildings, especially in the walls and floors.

6237. Schaeffer, John A. "Mineral wool and vermiculite as insulation." *Ind and Eng Chem* 27:1298-1303, N '35. il, table, charts
Discusses various insulation materials for domestic and industrial purposes and compares their physical properties.

6238. Schmidt, H. W. "Problems of equipment specifications." *Sch Executives M* 55:52-4, O '35. il
Lists and discusses principles for the shop teacher to bear in mind when writing specifications.

6239. Scripture, E. W., Jr. "Shrinkage of mortar." *Arch Rec* 78:347-51, N '35. il, charts
Lists and discusses several causes for defects in brick construction which can be attributed to the mortar.

6240. Sexson, John A. "Free from fear of earthquakes." *Nation's Sch* 15:46-9, F '35. il
Presents semi-technical considerations of earthquake proof school walls.

6241. Spraragen, William. "Welding in the building industry." *Ind and Eng Chem* 27:1137-8, O '35. il
States that welding is important in the building industry in the framing of industrial buildings, earthquake bracing, piping, etc.

6242. Werner, Richard K. "Uniform symbols on mechanical plans." *Sch Executives M* 55:111, N '35
Stresses the importance of uniformity of symbols on mechanical plans for school building construction where more than one firm of architects or engineers is employed. A list of symbols is suggested.

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IX. Acoustics—Radio and Public Address Systems

6243. Brodie, Robert B. "Fitting radio into the school program." *Nation's Sch* 15:56-8, F '35. il
Lists uses of public address systems in high schools.

6244. *Nation's Schools.* "Insulating equipment against noise." *Nation's Sch* 16:47, S '35
Says that insulation against noise is much less expensive at the time of installation than it is later on.

6245. Perry, Armstrong. "Looking ahead in radio." *Am Sch and Univ* 7:221-3, 1935
Points out improvements in radio and television as a means of broadening education. Proposes that every classroom be equipped with a receiving set in order to keep up with the times.

6246. Randall, Donald. "Radio system within reach of any school." *Nation's Sch* 16:55-7, Jl '35. il
Discusses the costs and advantages of installing a school address system as actually experienced by a Hamtramck, Michigan, school.

6247. *School Management.* "Installing a radio in your school." *Sch Mgt* 5-6:83, 91, N '35
Makes suggestions for avoiding costly errors in installing a radio system in the school.

6248. *Sierra Educational News.* "A recording machine." *Sierra Educ News* 31:60-1, S '35
Discusses the uses of an electro-vox recording machine, installed for the use of public schools in Pasadena, California.

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X. The School Grounds

6249. Hare, S. Herbert. "Fencing the school grounds." *Sch Executives M* 55:62-3, O '35. il, plans
Makes suggestions on types of fences which meet the requirements of simplicity and economy. Discusses the proper place for fences in modern school playgrounds and landscaped lawns.

6250. Hull, Osman R., and Ford, Willard S. *Survey of the Los Angeles city schools.* Los Angeles City Sch Dist, Los Angeles, Calif., 1934. 395 p.
Includes comments on school building planning—needs, selection and purchasing of sites, plans, and specifications. Also discusses the building and maintenance division of the business department.

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THE SELECTION OF THE SITE AND THE ORIENTATION OF THE BUILDING

6251. Anderson, Charles D. "Co-ordination of school planning with city planning." *Am Sch Bd J* 91:81, N '35
Points out briefly certain factors which must be taken into consideration in the selection of a site for a school building.

6252. Caparn, Harold A. "A natural setting has values all its own." *Nation's Sch* 15:51-3, Mr '35. il, plans
Tells how the Manhasset Valley School, Long Island, utilized its natural topography to best educational advantage.

6253. Donovan, John J. "Misfit purchases of school land." *Sch Executives M* 55:93, N '35
Suggests items to be considered in purchasing school land for building site in order to avoid waste.

6254. Engelhardt, Fred. "Selecting the school site." *Sch Executives M* 55:12-14, S '35. il, chart
Points out factors which affect site selections.

6255. Hare, S. Herbert. "Planning public school grounds to meet changing needs." *Am Sch and Univ* 7:160-4, 1935. plans
Proposes methods of improving inadequate locations of school tracts and obsolete locations of buildings on their grounds. Specifies the fenced play area for kindergarten children and discusses landscape construction and planting.

6256. Marsh, Burton W. "Elementary school traffic hazards." *Sch Executives M* 54:210-12, Mr '35
Discusses traffic considerations and the important part they should play as one of the major factors which enter into the selection of a school site and a school design.

6257. "Traffic problems and their relationship to school plant development." *Am Sch and Univ* 7:28-34, 1935. il, diag
Discusses the influence of traffic problems on school plant development. Gives a diagram of an ideally-planned community which meets the traffic problem.

6258. Morse, C. K. "Safety planning for schools." *Sch Executives M* 54:334-5, 349, Jl '35. il
Says that school traffic hazards may be eliminated by locating and planning the school site in harmony with the community plan.

6259. Noffsinger, Forest R. "The story of school sites." *Am Sch Bd J* 89:39-40, O '34; 35-6, N '34. il, plans
Traces the historical development in America of the essential principles and standards dealing with school sites.

6260. *School Management.* "Importance of school site is stressed." *Sch Mgt* 3-4:55, D '34
Discusses briefly England's requirements for a school site.

6261. "Avoid waste when buying land for new schools." *Sch Mgt* 5-6:110, D '35
Offers suggestions on the area and selection of a proper school site.

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LANDSCAPING

6262. Cornell, Ralph D. "Decorative settings for Pacific coast schools." *Nation's Sch* 16:43-7, S '35. il
Lists types of plants and shrubs specifically adapted to California school landscaping.

6263. Davey, Martin L. "The care of trees on school and college grounds." *Am Sch and Univ* 7:164-7, 1935. il
Discusses the following topics: transplanting large trees, securing proper growing conditions, eliminating the menace of weak and decayed trees, and controlling insect pests.

6264. Hubbard, Henry V., and Zach, Leon Henry. "The landscape architect's part in planning colleges and schools." *Am Sch and Univ* 7:155-60, 1935. il, plans
Says that the landscape architect must combine both the esthetic and the utilitarian in landscape design.

6265. *Journal of the National Education Association.* "A rural community beautifies its school." *Nat Educ Assn J* 24:139-42, My '35. il, plans
Tells how the community cooperated in landscaping the grounds of the Oakwood school at Cottonwood, Utah, with little expense.

6266. McCully, Anderson. "Personality comes to rock gardens." *Ladies Home J* 52:131, Ap '35. il
Discusses the selection of proper flowers and plants for outdoor gardens. The subject of layouts is touched upon.

6267. Mack, Carl F. "Beautifying the school grounds." *Sch Executives M* 54:307, 316, Je '35. plans
Suggests proper landscaping of the school site and discusses the happy and harmonious effect it creates.

6268. Morrison, R. C. "The development of school grounds." *Sch Executives M* 55:125-7, 157, D '35. il
Describes a model school grounds development in Fort Worth, Texas, and its anticipated effects.

6269. *Nation's Schools.* "Lawns better left uncovered." *Nation's Sch* 16:50, N '35
Discusses the care of school lawns during the winter months.

6270. Penfield, W. C. "Local color in landscaping works a transformation." *Nation's Sch* 14:50-1, O '34. il, plans
Discusses the landscaping done at the Vista Del Mar County School in California.

6271. Rawls, Elizabeth Stoughton. "Adventures in landscaping via the shoe box." *Sch Sci and Math* 35:252-9, Mr '35. il
Describes the landscaping of the inner school court at Shortridge High School, Indianapolis, Indiana.

6272. Robinson, Alice Page. "Attractive school grounds." *Instructor* 44:56, My '35
Describes the school grounds of a grammar school located in the suburbs of Durham, North Carolina.

6273. *School Management.* "Cement walks and drives." *Sch Mgt* 3-4:37, N '34
Gives a general discussion of the location, design, and materials for school walks.

6274. Spooner, Harry L. "Sloping lawn easily made." *Factory Mgt and Maintenance* 92:552, D '34. il
Tells how sloping land may be successfully seeded.

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THE PLAYGROUND, ATHLETIC FIELD, FIELDHOUSE, AND STADIUM

6275. *American City.* "The new central recreation field in an Idaho city." *Am City* 50:65, Je '35. il
Gives a brief description of the construction of the school athletic grounds at Burley, Idaho.

6276. *American School and University.* "Space requirements for the children's playground." *Am Sch and Univ* 7:192-4, 1935. il
Gives the space standards for an attractive outdoor play area for children between the ages of 5 and 15 and the means of adjusting the standard to varying numbers of children.

6277. *Architectural Record.* "Space requirements for children's playground." *Arch Rec* 77:180, Mr '35. il, tables, charts
Gives child capacity and specific areas required for certain playground apparatus, equipment, and games.

6278. Bowes, C. A. "The first junior high to construct a golf course." *Clearing House* 9:500-1, Ap '35
Describes a golf course built by students of a junior high school in Newington, Connecticut.

6279. Burkhardt, Carl H. "Committee report on gymnasium and athletic field equipment." *Res Q Am Phys Educ Assn* 5:85-96, O '34
Lists 37 athletic activities and gives the equipment required for each of them.

6280. Butler, George D. "Recreational planning in relation to school-plant planning." *Am Sch Bd J* 89:31-2, 50, D '34; 38, 78, Ja '35
Discusses the relationship of recreational planning to school-plant planning. Cites legal status, use, and standards for playground areas.

6281. Clegg, Gilbert. "Playground planning and layout." *Recreation* 29:151-5, 177, Je '35. il, plan
Discusses the planning, layout, and choice of activities for the public and school playgrounds.

6282. *Review of Educational Research.* "School playgrounds: their surfacing, administration, use, and care." *R Educ Res* 5:364-9, O '35. table
Reports a study on recreation, organization, and administration, and discusses the size, location, equipment, and surfacing of playgrounds.

6283. Schroeder, Louis C. "The dust problem on the playground." *Recreation* 29:459-60, 472, D '35. il
Tells how the Horace Mann School, Pittsburgh, Pennsylvania, solved the problem of dust on the playground by using an oil product, Sani-Soil-Set.

6284. Taylor, F. B. "A high school stadium for community and school use." *Am Sch Bd J* 91:35, S '35
Describes the concrete stadium at the Natrona County High School, Casper, Wyoming. The structure will seat 4,000 persons and was constructed at a cost of $41,000.

6285. Turner, Robert A. "A community-school project." *Recreation* 29:294-6, S '35
Discusses an interesting experience in Radburn, New Jersey, where the school and the community pooled their resources for a recreational program.

6286. Willis, Thompson. "Recreation and play-field design for the junior high school." *Am Sch and Univ* 7:186-8, 1935. il
Describes the athletic activity programs for both boys and girls. Recommends an outdoor theatre, space for gardening, and space for cars.

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XI. Space Provisions and the Layout and Equipment of the Interior Divisions of the Building

6287. Cheney, Ray Eugene. *Equipment specifications for high schools: their use and improvement.* Columbia Univ, Teach Col, Contr to Educ no. 612, New York, 1934. 87 p. (Summarized in *Teach Col Rec* 36:64-5, O '34.)
Gives types of specifications for high school equipment, analyzes these specifications, and discusses them from the point of view of the manufacturers as well as of the schools.

6288. "Equipment specifications for high schools: their use and improvement." *Am Sch Bd J* 90:24, 75, Mr '35
Cites methods of selection and specification requirements for the use and improvement of equipment for the high schools.

6289. Dangler, Edward. "The school health program." *Sch Executives M* 54:340-1, 348, Jl '35. il
Discusses the principal's responsibilities for health education, including proper seating, lighting, temperature, and rest rooms.

6290. Dawson, Howard A. "Characteristics of a satisfactory school." In *Satisfactory local school units*, Ch. 2. George Peabody Col for Teach, Nashville, Tenn., 1934. tables, 180 p.
Includes a discussion on buildings and equipment of a satisfactory school system and on bus transportation.

6291. Flocken, Ira G. "The school budget." *Nat Assn Pub Sch Bus Officials* 24:60-72, 1935
Includes a discussion on purchase of school supplies and equipment.

6292. Forsythe, Warren E. "Health hazards of the public school." *Nation's Sch* 16:34-6, O '35. il
Emphasizes a positive, constructional approach to the problem of student health and physical safety.

6293. Hibbert, R. W. "The purchase of school supplies and equipment." *Am Sch Bd J* 91:42-4, S '35
Contains many suggestions for careful purchasing methods.

6294. "School-supplies management." *Am Sch Bd J* 91:28-30, 75, O '35. tables, graphs
Suggests 10 practices which will help produce efficient supply management.

6295. *Review of Educational Research.* "Equipment, apparatus, and supplies." *R Educ Res* 5:362-3, O '35
Summarizes very briefly trends in the field of school equipment and supplies, giving references to professional writings published between July, 1932, and January, 1935.

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STAIRS, CORRIDORS, AND EXITS

6296. Frostic, Fred W. "Safe stairways or hazardous?" *Nation's Sch* 14:53-6, D '34. il, diag
Presents an excellent treatment of the safety factor in stairway building and remodeling.

6297. *Nation's Schools.* "School walls now assume a note of beauty." *Nation's Sch* 14:50-1, D '34
Describes recent hall mural work in several New Orleans, Louisiana, schools.

6298. Weeks, William H. "Ramps versus stairs for school buildings." *Am Sch Bd J* 90:38-9, My '35. tables, charts
Points out advantages of ramps over stairs for school-building use.

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WARDROBES AND LOCKERS

6299. Armstrong, Franklin G. "'Safety first' in lockers and locks." *Nation's Sch* 14:53-7, N '34. il, diag
States that modern education places new demands on locker accommodations, for there must be space for mechanical instruments, art equipment, and play apparel in addition to coat and hat space. Discusses types of lockers and locks.

6300. Rhodes, George N. "Steel wardrobes for grade school classrooms." *Sch Executives M* 54:186, 189, F '35. il
Gives a description of steel wardrobes with dimensions and costs.

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THE ACADEMIC ROOM

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LABORATORIES

6301. Baldwin, Thomas. "A method of equipping the demonstration table with gas where city gas is not available." *Sch Sci and Math* 35:928-31, D '35. il, diag
Gives directions for making an acetylene generator for use in the school laboratory where city gas is not available.

6302. Barnes, Cyrus W. "Criteria for the selection of science teaching materials." *Sci Educ* 19:152-7, D '35
Lists principal criteria to be used in purchase of materials for the teaching of elementary science.

6303. Bruce, G. V. "Elementary school science reference and instructional materials." *Sci Educ* 19:76-8, Ap '35; 172-7, D '35
Gives a bibliography of science references and a list of instructional materials.

6304. Carpenter, H. A. "Question of science equipment and materials." *Nat Educ Assn Proc* 73:634-5, 1935
Gives criteria for selection of materials and equipment for elementary school science rooms.

6305. Currier, A. J., and Buser, J. S. "Inexpensive conductivity apparatus." *J Chem Educ* 11:629, N '34. il
Tells how to make conductivity apparatus for the chemistry laboratory.

6306. Dunbar, Ralph E. "Convenient, inexpensive constant-temperature bath." *J Chem Educ* 11:627-8, N '34. il, diag
Tells how to construct a constant-temperature bath for chemistry laboratory.

6307. Fillinger, Harriett H. "Notes on simple home-made laboratory devices." *J Chem Educ* 11:554, O '34. diag
Tells how to make several small items of chemistry laboratory equipment, such as test tube stands, storage battery carrier, pipet, etc.

6308. Grier, N. M. "On the approval for accreditment of science laboratories." *Sci Educ* 19:19-23, F '35
Gives methods for evaluating materials used in science laboratories.

6309. Hoover, C. R. "Recent trends in laboratory construction, with special reference to chemical laboratories." *Am Sch and Univ* 7:339-43, 1935. il, plans
Says that the specifications of modern laboratories must meet the requirements of both the scientist and the architect. Points out specifications for general arrangement and materials, laboratory tables, plumbing, lighting, and ventilation.

6310. Kline, Nelson S. "Biology project room." *H Points* 17:64-6, Je '35
Presents a general discussion of the purposes, equipment, projects, etc., of the biology project room of the Manual Training High School, New York City.

6311. Muhleman, George W. "An efficient fume hood." *J Chem Educ* 12:591, D '35. il
Describes a simple, cheap, but efficient fume hood for the chemistry laboratory.

6312. Parker, M. W., and White, C. E. "Simple sodium press." *J Chem Educ* 12:232, My '35. diag
Tells how to provide a cheap simple sodium press for the chemistry laboratory.

6313. Phipps, T. E.; Spealman, M. L.; and Cooke, T. G. "A glass manometer for laboratory use by students in physical chemistry." *J Chem Educ* 12:321-3, Jl '35. diag
Gives detailed instructions for making an all-glass manometer for the physical chemistry laboratory.

6314. Quam, G. N. "Laboratory locker inspection." *J Chem Educ* 12:207, My '35. diag
Presents a plan of arrangement of locker equipment to minimize breakage and loss of time.

6315. Riley, Clyde E. "Economy in the physics laboratory." *Sch Sci and Math* 35:576, Je '35
Discusses ways to economize on physics equipment, both as to the amount and the maintenance.

6316. Rolls, J. O., and Hammersley, W. H. "A reasonably priced hydrogenator." *J Chem Educ* 12:290-1, Je '35. il, diag
Gives a list of materials required and instructions for making a hydrogenator for the chemistry laboratory.

6317. Schrorer, Earl H. "A duplicate wave apparatus." *Sch Sci and Math* 35:185-6, F '35. il
Tells how to make apparatus for use in the study of wave motion in high school science classes.

6318. Stogsdill, J. W. E. "Physics classrooms and laboratories in the Wichita high schools." *Am Sch and Univ* 7:344-5, 1935. plans
Describes the physics classrooms and laboratories in two schools, Wichita High School East and Wichita High School North.

6319. Stone, Charles H. "Economy in the chemical laboratory." *Sch Sci and Math* 35:34-7, Ja '35
Suggests amount and kinds of equipment needed in the chemical laboratory, and discusses means of economizing on equipment.

6320. Thiessen, G. W., and Frost, L. J. "Constant-temperature bath employing thermionic control." *J Chem Educ* 12:72-3, F '35. diag
Tells how to make a constant-temperature bath for the chemistry laboratory.

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LIBRARIES

6321. Cahalin, V. "Library service in the Pasadena school system." *Am Sch Bd J* 89:18-19, D '34. il, graphs
Describes the library service in the schools of Pasadena and gives the cost distribution for six years (1928-34).

6322. Douglas, Mary Peacock. "North Carolina school libraries." *Sch Executives M* 54:347-8, Jl '35
Discusses the libraries built in North Carolina through the use of PWA grants and loans.

6323. Fant, Louise L. "Reinforcing magazine covers." *Wilson Bul* 9:311, F '35
Gives a method of reinforcing magazine covers with gummed brown paper.

6324. Fargo, Lucile F. "School library planning and equipment." *Am Sch and Univ* 7:227-32, 1935. il, plans
Enumerates the different functions of high school libraries and the ways that planning and equipment will insure that these functions are carried out in an efficient manner. The essential requisites of a good library are listed in tabulated form.

6325. Horrall, A. H. "Development of an elementary library." *Am Sch Bd J* 90:44, 72, My '35
Discusses the desirability of an elementary library.

6326. Indall, Harold A. R. "Caring for the library of a small school." *Am Sch Bd J* 91:38, O '35
Tells how student librarians successfully supervised the use of the school library in Arlington, South Dakota.

6327. Lowth, Frank J. "Is the reference book a luxury?" *Sch Executives M* 54:150-1, 156, Ja '35. il
Deplores the "bogus economy" in the realm of educational essentials.

6328. *Nation's Schools.* "Traveling library for rural schools." *Nation's Sch* 14:28, D '34
Tells of the traveling library service being carried on in the rural schools of Lee County, Florida.

6329. Porter, Dwight E. "The socialized high school library." *Library Occurrent* 11:308-16, Ap '35
Includes a discussion on the standards a library room should meet for a curriculum having social aims in view.

6330. Taylor, Adeline. "A kindergarten library project." *Wilson Bul* 10:260-1, D '35
Includes a brief discussion on library equipment for kindergarten libraries.

6331. Walraven, Margaret K. "Let's do our library over." *Wilson Bul* 9:242-3, 245, Ja '35
Tells how the books in the library at Technical High School, Dallas, Texas, were reorganized into classifications and were properly lettered.

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ASSEMBLIES AND STUDY HALLS

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THE AUDITORIUM AND STAGE

6332. Robinson, Alice Page. "Scenic backdrops for school programs." *Instructor* 44:57, 77, Je '35
Tells the method used and the results obtained by the sixth grade pupils of the Morehead Public School, Durham, North Carolina, in making backdrops for their auditorium stage.

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SCHOOL SHOPS AND INDUSTRIAL BUILDINGS

6333. Beebe, Robert O. "Planning the vocational school plant for future as well as present needs." *Am Sch and Univ* 7:350-3, 1935. il
Maintains that the vocational school plant should meet the requirements of the changes which are taking place in building, manufacturing, and merchandising. Shows how the construction of the shop and the general equipment will help meet these changes.

6334. Bernard, Samuel. "Watch and clock repairing." *Ind Arts and Voc Educ* 24:4-6, Ja '35. tables
Presents a list of projects and equipment needed for teaching watch and clock repairing.

6335. Byrn, M. L. "A means of economy in the general shop." *Univ Mich Sch Educ Bul* 7:33, D '35
Suggests economizing in the school shop by using smaller, lighter, less expensive machines in place of heavy equipment.

6336. Coover, S. L. "Gas furnace." *Ind Arts and Voc Educ* 23:332-3, O '34. il, diag
Describes a gas furnace that is suitable for a school shop.

6337. Cunningham, W. E. "Cooperation between industrial-arts and science departments." *Ind Educ M* 37:107-9, Mr '35. il
Explains how the industrial arts shop can make some of the science laboratory equipment. Describes particularly the making of animal cages.

6338. Decker, George C. "Industrial arts at Fairview." *Ind Arts and Voc Educ* 24:86-7, Mr '35. il, plans
Describes the industrial arts course of study and the plans of the industrial arts rooms of the Fairview High School, Dayton, Ohio.

6339. Goby, Lee W. "Reorganizing a unit shop into a general shop." *Ind Educ M* 36:247-9, N '34. plan
Describes the reorganization of the three-room school shop of the Converse Junior High School, Springfield, Illinois. Includes a floor plan of the placement of the equipment.

6340. Grinstead, Noel B. "Tool records determine needs." *Ind Arts and Voc Educ* 24:59-61, F '35. tables
States that keeping a record of the use of each tool in the shop gives an index to the needs of the shop.

6341. Hamon, R. L., and Standish, H. E. "General shop for rural schools." *Ind Arts and Voc Educ* 24:49-54, F '35. plans
Points out the aims of the industrial arts program in the rural school, giving plans for the general shop and suggestive tool lists for the shop.

6342. *Heating and Ventilating Magazine.* "Chicago's newest technical high school teaches air conditioning." *Heat and Ven* 31:38-9, O '34. il
Describes the apparatus and the plan of the laboratory for the teaching of air-conditioning at the Albert G. Lane Technical High School of Chicago.

6343. Herd, Edmund J. W. "The importance of equipment." *Ind Arts and Voc Educ* 24:204-5, Jl '35
Calls attention to the part played by insufficient, ill-conditioned, and poorly placed equipment in the maintenance of discipline in the school shop.

6344. Howard, Carl G. "Farm-shop management." *Ind Arts and Voc Educ* 24:115-18, Ap '35. il
Discusses the problems confronting the farm-shop instructor. Gives a list of equipment and supplies needed.

6345. Hunter, William L. "Shop-planning principles." *Am Sch and Univ* 7:349, 1935
Enumerates the requirements of a good shop.

6346. *Industrial Arts and Vocational Education.* "Wood-working equipment and supplies." *Ind Arts and Voc Educ* 24:8A, 10A, 12A, F '35
Gives a maximum list of woodworking equipment and supplies.

6347. "Printshop equipment and supplies." *Ind Arts and Voc Educ* 24: 22A, 24A, F '35
Presents a maximum list of printshop equipment and supplies.

6348. "Metal-working equipment and supplies." *Ind Arts and Voc Educ* 24:27A, 28A, 30A, F '35
Gives a maximum list of metal-working equipment and supplies for the school shop.

6349. "Automotive equipment, tools, and supplies." *Ind Arts and Voc Educ* 24:33A, 36A, F '35
Presents a maximum list of automotive equipment, tools, and supplies.

6350. "Drafting equipment and supplies." *Ind Arts and Voc Educ* 24:37A, F '35
Gives a maximum list of drafting equipment and supplies.

6351. "Electrical-shop equipment, supplies, and motor and testing equipment." *Ind Arts and Voc Educ* 24:44A, 46A, F '35
Presents a maximum list of electrical-shop equipment, supplies, and motor and testing equipment.

6352. *Industrial Education Magazine.* "Industrial arts museum." *Ind Educ M* 36:272, N '34
Describes briefly an industrial arts museum in a Buffalo, New York, school to promote interest in craftsmanship and stimulate individual expression.

6353. Jackson, Harry Randolph. *A study of home made machinery for the purpose of equipping the small school shop.* Indiana Univ, Master's thesis, Bloomington, 1935. 103 p., tables, diag
Tells how to make certain items of equipment for the school shop.

6354. Jordan, A. B. "Hadley auto department." *Ind Arts and Voc Educ* 24:64-8, 14A, F '35. il, plans, chart
Describes the auto department of the Hadley Vocational School, St. Louis, Missouri.

6355. Lindeman, Carl V. "Aids for the school shop." *Ind Arts and Voc Educ* 23:312-13, O '34; 351-2, N '34; 381-2, D '34
Lists references on sources of helpful and suggestive materials and supplies for the school shop.

6356. Loucks, P. W. "The general metal-shop in operation." *Ind Educ M* 37:122-3, My '35. plan
Discusses the organization of the four-year course in metal shopwork and the organization of the metal shop room of the Glendale Union High School, Glendale, Arizona. A floor plan is included.

6357. Marshall, D. C. "A course of study for upholstering." *Ind Arts and Voc Educ* 24:85-6, Mr '35
Discusses a course of study and a list of materials and tools for the study of upholstering.

6358. Megow, Fred W. "Finishing table for the crowded wood-working shop." *Ind Educ M* 37:275, N '35. diag
Describes a finishing table for the woodworking shop.

6359. Miller, Earl S. "A practical general-shop plan." *Ind Arts and Voc Educ* 24:54-9, F '35. fig, table, plans
Discusses the aims, course of study, and floor plan for a general shop, and gives a list of equipment.

6360. Norris, Hugh. "Rating the department." *Ind Arts and Voc Educ* 24:133-6, My '35. fig
Presents a set of rating factors including physical equipment for an industrial arts department.

6361. Pedersen, Edward J. "Economical general shop course." *Ind Arts and Voc Educ* 24:71-3, Mr '35
Tells how one teacher has tried to make his general shop function fully and yet cheaply. Contains lists of operations performed and of valuable related knowledge for woodworking, electricity, metal work and plumbing, home mechanics, mechanical drawing, and concrete work.

6362. Siedle, Theodore. "Pittsburgh—the convention city." *Ind Arts and Voc Educ* 23:365-8, D '34. il
Describes Pittsburgh's schools. Gives illustrations of schools and vocational classrooms.

6363. Wagner, Royal Wilton. "Dual-purpose bench for the metalworking shop." *Ind Educ M* 37:159, My '35. il
Describes a dual-purpose bench for the metalworking shop.

6364. Yager, Sylvan A. "Arranging the tools." *Ind Arts and Voc Educ* 24:227-8, Ag '35
Lists factors to be considered when planning the placing of tools on a tool rack, in a tool cabinet, or in a toolroom.

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HOUSEHOLD ACTIVITIES ROOMS

6365. *American School Board Journal.* "The Lillian Peek Homemaking Building, Mineral Wells, Texas." *Am Sch Bd J* 91:39, O '35. il, plans
Describes briefly the Peek Homemaking Building.

6366. Bryant, Laura Judd. "A modern food laboratory." *Prac Home Econ* 13:139, My '35. il
Describes the layout and equipment of the modern food laboratory of the Norwood, Ohio, high school.

6367. Hollinger, Isabel M. "Principles of art applied to the planning and decoration of a home economics department." *Prac Home Econ* 13:358-9, 376, D '35. il, plans
Tells how an attractive home economics department for a small school was made from two unused schoolrooms.

6368. U.S. Office of Education. *Space and equipment for homemaking instruction.* U.S. Dept of Interior, Office of Educ, Voc Educ Bul no. 181, Home Econ Series no. 18, Washington, D.C., 1935. 153 p. il, plans, tables
Gives detailed discussion on location of home economics departments in buildings and of all essential equipment for such departments.

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COMMERCIAL ROOMS

6369. Farnsworth, W. R. "Equipment and procedure for secretarial office practice." *Balance Sheet* 16:266-7, F '35
Lists equipment for a course in secretarial practice and gives a suggested procedure for teaching such a course.

6370. McNamara, Edward J. "Office practice—an integrated laboratory project." *Am Sch and Univ* 7:233-5, 1935. il
Gives an account of the operation of an office laboratory project of the High School of Commerce in New York City, showing how necessary a project of this kind is to commerce students and how such a project could be carried out satisfactorily.

6371. Malmar, Ruth. "The commercial museum at Haaren." *H Points* 17:69-70, Je '35
Describes the commercial museum at the Haaren High School, New York City.

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THE CAFETERIA

6372. Brannigan, Elizabeth. "A New York high school cafeteria." *Prac Home Econ* 12:330, N '34
Discusses the management, main equipment, and financial status of the cafeteria of the Washington Irving High School in New York City.

6373. Bryan, Mary de Garmo. "Beauty and utility in food service: the public school cafeteria." *Am Sch and Univ* 7:289-98, 1935. il
Points out the factors which must be considered in order to assure the greatest utility of the lunchroom. They are location, size and shape of the room, lighting, ventilation, elimination of noise, wall decoration, types of floors, furnishings, beauty and utility of the service counter, attractive service, and kitchen equipment.

6374. Certain, Alice Rolfe. "Central kitchen solves problem of small school." *Nation's Sch* 16:56-8, N '35. il, charts
Says that the central kitchens established in Jacksonville, Florida, have solved the problem of small outlying schools that cannot support individual lunchrooms.

6375. Graves, Lulu G. "New things in kitchen and cafeteria equipment." *Prac Home Econ* 13:49, F '35. il
Includes discussion of a dishwasher, a steam-jacketed kettle, casseroles, glass teapots, and a streamline sink.

6376. "New kitchen and cafeteria equipment." *Prac Home Econ* 13:81, Mr '35. il
Discusses metal table tops, double boilers, frying pans, trays, and narrow rimmed china.

6377. "Paper helps for the kitchen." *Prac Home Econ* 13:115, Ap '35. il
Considers the uses of different types of plain and waxed paper, and paper plates and cups, in the kitchen and cafeteria.

6378. "Time and temper savers." *Prac Home Econ* 13:177, Je '35. il
Discusses new types of can openers and automatic electric roasters for use in the school cafeteria.

6379. "Modern equipment." *Prac Home Econ* 13:260, S '35. il
Presents a description of a glass case for counter display of food in the cafeteria and mentions several very useful rubber appliances for the kitchen.

6380. Gregg, Helen F. "Business methods in the Pittsburgh school cafeterias." *Am Sch and Univ* 7:310-12, 1935. il
Discusses the organization, policies, operation, and purchasing and accounting methods of the Pittsburgh school cafeterias.

6381. Hoskins, Bena. "New types of cafeteria equipment." *Prac Home Econ* 13:364-5, D '35. il
Describes the modern, efficient equipment selected for the Fort Worth, Texas, public school cafeterias.

6382. McCray, Doris W. "Refrigeration in the small school cafeteria." *Prac Home Econ* 12:299-300, O '34. il
Discusses the proper selection of refrigerators to fit the needs of a small school cafeteria.

6383. "The new aluminum finish." *Prac Home Econ* 12:331, N '34
Discusses the advantages of alumilite finish aluminum ware for cafeteria trays and cooking equipment.

6384. "Cafeteria kitchen table coverings." *Prac Home Econ* 12:365, D '34
Discusses types of table coverings for cafeterias with comments on the advisability of each.

6385. "Cutlery in the cafeteria kitchen." *Prac Home Econ* 13:19-20, Ja '35. il
Lists cutlery needed in the cafeteria kitchen and discusses the very best types.

6386. Meadows, C. M., Jr. "San Antonio centralizes school-cafeteria cooking." *Am Sch Bd J* 89:26-7, 63, D '34. il
Describes the cafeteria system of the San Antonio, Texas, schools. The food is cooked in one large kitchen and is taken by truck to schools throughout the city.

6387. *Nation's Schools.* "Points to remember in buying canned goods." *Nation's Sch* 16:48, Jl '35
Lists and discusses the important factors in purchasing canned goods for the school—geographical location of the cannery, varieties of vegetables or fruits canned, grades of foods, net weights in cans, and prices.

6388. "To clean silverware." *Nation's Sch* 16:47, S '35
Presents a practical method of cleaning silverware used in a school cafeteria.

6389. *Practical Home Economics.* "New equipment for the school cafeteria." *Prac Home Econ* 13:213, Jl '35. il
Describes the pressure cooker for use in the small school cafeteria.

6390. Warren, Jean. "A school lunchroom project." *Am Childh* 20:10, N '34
Lists desirable qualities of a lunchroom and gives a description of the lunchroom in the city school, Enterprise, Alabama.

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THE GYMNASIUM AND ITS ACCESSORIES

6391. Alperin, Daniel M. "Practicing strict economy in the athletic program." *Nation's Sch* 16:53-5, O '35. il, charts
Points out an organization for the economical utilization of an athletic budget.

6392. *Architectural Record.* "Sports building." *Arch Rec* 78:181-4, S '35. il, plans, charts
Discusses the sports building erected at Kent School, Kent, Connecticut, at a cost of only 11.3 cents per cubic foot.

6393. Boyd, Sidney R. "Remaking the gymnasium." *Athletic J* 15:28, 42, My '35
Points out mistakes in gymnasium construction and suggests remedies for them.

6394. Davis, Sarah R. "Selection and storage of gymnasium mats." *J Health and Phys Educ* 5:26-7, N '34. il
Discusses the size, durability, and cleanliness of mats and describes the ways of storing mats.

6395. Hagen, George A. "New features in gymnasium planning." *J Health and Phys Educ* 6:20-3, Je '35. il
Describes fully the Wakefield, Michigan, high school gymnasium which includes many new construction ideas.

6396. Llewellyn, Ralph C. "The gymnasium in the schools of today." *Am Sch Bd J* 90:33-6, Ja '35. il, diag
Discusses types of gymnasiums found in schools today with regard to construction, ventilation, and sanitation details.

6397. Reichart, Natalie. "Indoor archery equipment." *J Health and Phys Educ* 6:44-5, 56, O '35. il
Tells how to make equipment for indoor archery.

6398. St. John, George C. "The Winter Exercise Building at the Choate School, Wallingford, Connecticut." *Am Sch and Univ* 7:195-6, 1935. il, charts
Describes the Winter Exercise Building at Choate School in Wallingford, Connecticut.

6399. *School Management*. "Equipment for corrective gymnastics." *Sch Mgt* 5-6:58, O '35
Lists recommended equipment for corrective gymnastics.

6400. Twitchell, Paul. "The proper care of athletic equipment." *Athletic J* 16:8, 42, D '35
Tells how to care for the athletic equipment and gives a plan for stockroom procedure.

6401. Uhler, William P., Jr. "The care of archery equipment." *J Health and Phys Educ* 6:38-9, F '35. il
Gives suggestions for caring for archery equipment, both while in storage and in use.

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THE SWIMMING POOL

6402. Kearns, W. A. "Swimming pool design and construction." *Recreation* 28:341-2, 357, O '34. il
Lists factors to be considered in building the swimming pool and discusses the facilities necessary.

6403. *Recreation*. "Rochester's new swimming pools." *Recreation* 29:306, 325, S '35
Describes the new swimming pools in Rochester, New York, and discusses means of keeping pools sanitary.

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THE PLAYROOM

6404. Mueller, Grover W. "The toy shop." *Mind and Body* 41:119-21, O '34
Recommends toy shop to be included in school planning for physical development of younger children.

6405. Richard, Ella. "A reading and sand table." *Instructor* 44:51, Mr '35
Describes a convertible reading and sand table.

6406. Smith, Bertha. "A game room for elementary schools." *Sch Executives M* 54:265-7, My '35. il, plans
Describes a game room unit which will afford an excellent recreational program that can be supervised by the school and home.

ADMINISTRATIVE ROOMS, BUILDINGS, AND SUPPLIES

6407. Fountain, Arthur W. "An inspection department." *Ind Arts and Voc Educ* 24:138-42, My '35. il, fig
Describes the inspection room and the use of the inspection room of the Cass Technical High School, Detroit, Michigan. The equipment of the inspection room is listed.

6408. Lindwall, Robert E. "Activity record card." *J Health and Phys Educ* 6:44, F '35. il
Shows a physical education activity record card for keeping a student's complete record in several departments on a single card.

6409. Rathbun, Iris V. "Home-made hectograph." *Sierra Educ News* 31:31, Je '35
Tells how to make a hectograph so cheaply that each teacher may have his own.

6410. Smith, Ira M. "Forms and equipment for the keeping of student records." *Am Sch and Univ* 7:238-41, 1935. il, charts
Recommends the keeping of complete records of character and personality traits in addition to scholarship for each student.

6411. Trenham, N. Bradford. "School purchasing." *Tax Digest* 13:50-1, 60, F '35
Discusses the economy of centralization in the purchasing of school supplies.

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KINDERGARTEN AND PRIMARY ROOMS

6412. Stoddard, George D. "The planning and equipping of nursery schools." *Am Sch and Univ* 7:218-21, 1935. il, plans
Discusses the place of the nursery school in education. Enumerates the essentials of a nursery school plant and includes a list of available bulletins on the subject. For illustration an experimental school in Davenport, Iowa, is shown and discussed.

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COMMUNITY ROOMS

6413. Engelhardt, N. L. "School buildings as efficient laboratories for coördinating community activities." *Jr-Sr H Sch Clearing House* 9:261-6, Ja '35
Makes a plea for complete utilization of schoolrooms.

PUBLIC SPEAKING AND MUSIC ROOMS

6414. Irons, R. B. "Simplicity is the keynote of this school music hall." *Nation's Sch* 15:46-8, My '35. il
Gives the costs and building specifications for Mason City High School Music Hall in Mason City, Iowa.

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6453

SCHOOL SEATING AND THE SELECTION AND PURCHASE OF SCHOOL FURNITURE

6415. Arp, J. P. "A plan for selecting school-building equipment." *Am Sch Bd J* 91:41, 74-5, Jl '35
Suggests the selection of a competent equipment director, thereby doing away with ill-chosen, unsuitable, school furniture.

6416. Engelhardt, N. L. "Trends in classroom design and equipment." *Am Sch and Univ* 7:214-17, 1935. charts
Gives the specifications for classrooms for elementary grades to meet the changing methods of teaching, and also gives the respective specifications for high school rooms.

6417. Gaiser, Samuel. "Organizing a school supply service agency." *Nation's Sch* 16:48-51, S '35
Makes a plea for a distinct agency for supplies.

6418. Hamon, Ray L. "Trends in types of school seating." *Nation's Sch* 16:57-8, S '35. table, chart
Reports a study of school seating trends in which the data were secured from the manufacturers.

6419. Herriott, M. E. "Schoolroom seating for better natural lighting and the informal program." *Am Sch Bd J* 91:39-40, D '35. il
Suggests a diagonal arrangement of seats for better natural lighting and an informal program.

6420. Lowth, Frank J. "Schoolroom seating and the child's health." *Instructor* 44:9-10, S '35
Discussees schoolroom seating and its effects upon the child's health. Gives a list of suggestions for school boards and superintendents to follow in improving the child's health.

6421. Miller, Marion G. "The schoolroom." *Sch Arts M* 35:24-6, S '35
Lists equipment necessary for modern classrooms.

6422. Reeder, Ward G. "Our archaic school equipment." *Instructor* 44:6-9, F '35
Discusses the out-of-date equipment that is found in our schools. States that good equipment is necessary for a good school.

6423. Reeves, Stanley Newman. *Tests of quality for school equipment and supplies.* George Peabody Col for Teach, Contr to Educ no. 135, Nashville, Tenn., 1934. 52 p.
Devises tests for evaluating equipment and supplies under the following headings: general, cafeteria and household arts, general classroom, health and playground, industrial arts, janitorial, office, and science. Presents evaluative criteria for tests.

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THE CONSTRUCTION AND MAINTENANCE OF FLOORS

6424. *American School Board Journal.* "Precaution for laying hardwood floors." *Am Sch Bd J* 91:37, Ag '35
Lists eight *don'ts* which should be observed in laying hardwood floors so that cracking, cupping, or buckling will not develop.

6425. Browne, F. L. "Painting characteristics of hardwoods." *Ind and Eng Chem* 27:42-7, Ja '35. il, charts, tables
Gives the results of a study of the painting characteristics of hardwoods.

6426. Casey, J. T. "Waxing right on floors." *Nation's Sch* 15:60, 62, Je '35
Discusses the classification and composition of various floor waxes.

6427. Cousins, A. B. "Proper treatment of schoolroom floors and how to maintain them." *Nat Assn Pub Sch Bus Officials* 23:243-5, 1934
Lists factors to be considered in treatment of schoolroom floors.

6428. Dinsmore, John C. "The selection and care of floors." *Nation's Sch* 14:44, D '34. Also in *Sch Mgt* 3-4:110, F '35
Presents a chart showing the first cost, life, silence, method of cleaning, method of polishing, and wax to use for each type of floor.

6429. Engelhardt, N. L., and Uhl, W. L. "The floors of new high school buildings." *Am Sch Bd J* 90:39-40, 84, My '35
Presents a study of the types of floors used in 39 different types of rooms in new high schools from 1924 to 1931.

6430. Fisher, H. D. "Fluosilicate won't." *Factory Mgt and Maintenance* 92:560, D '34
Repudiates the claim made by Perry (*Factory Mgt and Maintenance* 92:469, O '34) that fluosilicate hardeners will prevent the disintegration of concrete floors. States that integral metallic hardeners and painting are best.

6431. *Nation's Schools.* "Floor seals important in proper maintenance." *Nation's Sch* 15:53, Mr '35
Discusses the history, classification, and application of floor seals.

6432. Perry, E. "Here's a cure for floors like this." *Factory Mgt and Maintenance* 92:469, O '34. il
Suggests a treatment for concrete floors which will prevent disintegration.

6433. Rosenstengel, W. E. "Beautifying the school floor." *Sch Executives M* 54:278, My '35
Gives helpful suggestions for conditioning and maintaining wood floors.

6434. *School Management.* "Beautifying the school floor." *Sch Mgt* 5-6:22, S '35
Offers suggestions for conditioning and maintaining a new maple school floor.

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BLACKBOARDS AND BULLETIN BOARDS

6435. Fildes, R. E. "Blackboards and their use." *El Sch J* 35:760-7, Je '35. tables

Points out the uses and place of blackboards in instruction, listing advantages and disadvantages.

6436. Frostic, Fred W. "Treat your blackboards white." *Nation's Sch* 15:57-60, Ja '35. il

Lists and discusses rules for keeping blackboards in adequate condition.

6437. Pykoski, Conrad. "Slate blackboards: their care and maintenance in public schools." *Nat Assn Pub Sch Bus Officials* 24:182-9, 1935

Cites the importance of the proper care to be taken in the installation and resurfacing of blackboards and recommends factors to be considered in the purchase of chalks and erasers.

MUSEUMS

6438. McCord, Eugenia L. "The educational museum." *Educ* 55:115-19, O '34

Discusses the place of a museum in the public schools. Outstanding school museums are described and discussed.

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DORMITORIES

6439. Bozorth, Inez V. "Dormitory design and equipment." *Am Sch and Univ* 7:302-6, 1935. il, plans

Shows that the planning of dormitories should consider the size of residence units, location, and orientation of the dormitory. Indicates the specifications for the first floor, dining room and kitchen, student rooms, bath rooms, laundries, and floor and wall finishes. The essential equipment for dormitories is listed.

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SOCIAL STUDIES ROOMS

6440. Cundall, L. B. "The geography room." *J Educ* (London) 67:454, 458, 460, Jl '35. plans

Makes suggestions as to the proper size, arrangement, and equipment for the geography laboratory.

6441. Wooden, H. Z.; Wrigley, A. B.; and Lowe, W. L. "A plan for a social science suite." *Sch Executives M* 54:262-4, My '35. plans

Proposes a suite of rooms for the teaching of the social science subjects.

TRADE SCHOOLS

6442. Wahlstrom, Leonard W. "Chicago and the A.V.A. convention." *Ind Arts and Voc Educ* 24:353-9, D '35. il

Describes the schools of the city of Chicago, emphasizing the vocational and technical schools.

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SPECIAL SCHOOLS AND ROOMS

6443. Johnson, Anna G. "The value of a nature room in creative education." *H Points* 17:56-8, O '35

Concerns itself largely with the teaching aspects of the nature room in the Julia Richmond High School, New York City, but also includes a brief discussion of the physical layout of the room.

6444. Landell, Catherine. "A special room for retarded children, and its equipment." *Am Sch Bd J* 91:19-20, N '35

Cites the value of a special room for retarded children and gives suggestions for the location and equipment of this room.

6445. Noland, R. W. "Modernizing and extending a state school service plant." *Heat and Ven* 32:34-6, F '35. il, diag

Describes the expansion of the Fort Wayne State School, Fort Wayne, Indiana, a school for the feeble-minded.

6446. Weglein, David E. "Schools for physically handicapped." *Sch Executives M* 54:274-5, My '35. il

Tells how Baltimore has provided school facilities and remedial measures for physically handicapped children.

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VISUAL EDUCATION EQUIPMENT

6447. Brodshaug, M., and Brunstetter, M. R. "The place of sound films in instruction." *Educ* 55:88-93, O '34

Deals with visual, auditory, and audio-visual teaching aids, with emphasis on the sound film. Each of a series of instructional aids is named and evaluated.

6448. Brunstetter, Max R. "Selecting educational talking pictures." *Sch Executives M* 54:364-5, 380, Ag '35. charts

Sets forth a plan to determine the instructional value of an educational talking picture.

6449. Butler, S. R. "Visual education." *Bul Dept El Sch Prin* 14:88-90, D '34

Discusses visual education equipment as an aid in teaching.

6450. Cameron, J. W. "Movies for small schools." *Nation's Sch* 15:56, Ja '35

Discusses the circulating movie library recently developed by a group of school districts in Western Pennsylvania.

6451. Department of Elementary School Principals. "Aids to teaching in the elementary school." *Bul Dept El Sch Prin* 13:115-528, Je '34

Presents detailed information on the use of various teaching aids, especially visual aids.

6452. Devereux, Frederick L. "Utilizing educational talking pictures in the schools." *Am Sch and Univ* 7:235-7, 1935. plans

Points out the different requirements which should be considered in picking out films for classroom use and also the requirements which should be met by the classrooms where pictures are to be shown. Sources of educational talking pictures are included.

6453. "School-building requirements for audio-visual instruction." In *The educational talking picture,* Ch. 11, p. 158-88. Univ of Chicago Press, Chicago, 1935. il, plans
Discusses the adaptation of school buildings to new trends in education, the physical provisions required for audio-visual teaching, the audio-visual studio, and the acoustics of the school building. Gives detailed standards for planning and equipping the auditorium and the music unit.

6454. Elson, Chester J. "Visual education through commercial charts." *Balance Sheet* 16:215, Ja '35
Discusses charts suitable for use in teaching commercial subjects.

6455. Emmert, Wilber. "Visual sensory aids in education." *Educ* 55:75-82, O '34
Presents a general discussion of visual education, including the meaning of visual education, types of visual-sensory aids, visual education departments in cities and colleges, national organizations, teacher training, core curriculum, current development, and posters.

6456. Heine, Arthur. "Talking-slide-films for visual education purposes." *Educ* 55:94-7, O '34
Recommends and discusses the talking slide film.

6457. Marshall, James. "The sound film in education." *Am Sch Bd J* 91:29-30, Jl '35
Discusses the relationship of the sound film to the curriculum of today. Tells of the development of sound film and its relation to the building program and lists equipment available for audio-visual instruction.

6458. Meinhard, P. R. "School budgets and teaching films." *Instructor* 44:8-10, Mr '35
Makes a plea for school authorities to educate the public on the value of films in teaching, so that budget provisions may be made for the securing of films.

6459. *School Management.* "School stresses maintenance of visual aids." *Sch Mgt* 3-4:59, D '34
Gives suggestions for equipping the movie room.

6460. Whittinghill, W. W., and Thomas, John S. "Interpreting the schools with visual aids." *Educ* 55:341-6, F '35
Deals with the general uses of visual aids and their special uses in interpreting the school. Such aids as exhibits, motion pictures, slides, newspapers, and museums are discussed.

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SCHOOL BUSES

6461. *American School Board Journal.* "The school bus in the United States." *Am Sch Bd J* 91:40, Ag '35. table
Contains a report of the National Association of Motor Bus Operators which shows the total number of schools employing the motor bus and the cost connected therewith.

6462. Burnett, Hugh. "Safety measures for the school bus." *Nation's Sch* 15:49-50, My '35. il
Gives minor details of safety equipment for buses.

6463. Hawthorne, W. B. "Pupil transportation in Petaluma High School." *Sierra Educ News* 31:50-1, Mr '35
Discusses the size, equipment, and maintenance of the school buses of the Petaluma High School.

6464. Lambert, A. C. "Getting to school." *Nation's Sch* 16:47-8, Jl '35. tables
Reports a study of the time consumed in travel by the grade pupils in a western city of about 15,000 residents.

6465. Mullins, R. J., and Hamon, Ray L. "Delivered by bus." *Nation's Sch* 16:47-9, D '35. chart, table
Proposes a plan for state aid for transportation of New Mexican school pupils.

6466. Roberts, Roy W. "Cost of pupil transportation in Arkansas." *Educ Admin and Sup* 21:61-7, Ja '35. tables
Includes a discussion on cost of buses and their maintenance and cost of pupil transportation.

6467. "Predicting pupil transportation costs." *Nation's Sch* 15:64, Ap '35
Sets forth a technique which gives an accurate estimate of the cost of bringing children to and from school.

6468. Ryder, H. E. "School transportation in Ohio." *Am Sch Bd J* 91:52, O '35. il
Describes the transportation problem in Sandusky County, Ohio, and contrasts two systems of ownership of buses.

6469. Walton, C. L. "Better transportation at lower cost." *Nation's Sch* 16:62, 64, N '35
Tells how waste in pupil transportation has been overcome in Caruthers Union High School District, California.

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XII. Mechanical Equipment

SANITATION

6470. *American School Board Journal.* "A score card for determining the sanitary condition of school buildings." (ed) *Am Sch Bd J* 90:30, F '35. table
Gives a score card to be used in judging the effectiveness of the custodial service, with special emphasis on sanitation.

6471. Clark, Leonard A. "School-building cleaning and sanitation." *Am Sch Bd J* 91:23-4, 75-6, O '35; 35, 80, N '35
Discusses the cleaning and sanitation phases of janitor-engineer service.

6472. Forden, Gladyce. "Everyday health lessons in a rural school." *Hygeia* 13:77-8, Ja '35
Tells how a teacher's study and health work led to the improvement of health conditions in a one-room rural school in San Luis County, California.

6473. Phelan, Anette M. "The hygiene of the school plant." In *A study of school health standards*, Ch. 6, p. 118-49. Columbia Univ, Teach Col, thesis, New York, 1934
Devotes a chapter to the hygiene of the school plant as it is related to the construction standards, size of rooms, equipment of laboratories, floors, and walls of the school building.

6474. Sullivan, John P. "School health problems through the years: Boston public schools, 1635-1935." *Am J Pub Health* 25:1001-6, S '35
Gives a health history of the Boston, Massachusetts, public schools, citing the development of sanitation, heating, ventilation, and school building construction in general.

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HEATING AND VENTILATING

6475. Frommelt, Horace A. "Stokers in school heating." *Am Sch Bd J* 91:26, Ag '35
Cites the advantages of automatic coal burners over other types of heating.

6476. "Stoker firing of school boilers." *Am Sch Bd J* 91:39-40, N '35
Cites the outstanding benefits to be enjoyed through stoker operation, enumerates the disadvantages of oil, lists economic advantages of coal, and answers a number of questions about the stoker and its application.

6477. Frostic, Fred W. "A plan for testing and maintaining return trap efficiency." *Nation's Sch* 14:62, 64, 66, O '34. il
Lists the services provided by a good return trap.

6478. Griffey, Carl H. "Improved temperature regulation." *Sch Executives M* 54:82-3, N '34. tables, forms
Proposes a plan of temperature recording which will improve heating facilities.

6479. *Heating and Ventilating Magazine*. "Study of school building heating systems." *Heat and Ven* 32:50, F '35
Presents operating cost data on heating systems in a number of Iowa schools.

6480. "Classroom odors with reduced outside air supply." *Heat and Ven* 32:56, Je '35
Summarizes a study on the proper amount of outside air necessary for ventilation in classrooms.

6481. "Legal requirements for ventilation air." *Heat and Ven* 32:50-3, Ag '35
Presents a summary of state laws dealing with the amount of ventilation air required in public schools and factories.

6482. "Estimating air conditioning operating costs." *Heat and Ven* 32:28-9, O '35. tables
Issues data on the operating costs of air conditioning systems.

6483. Johnson, Allen J. "A new principle of furnace design for anthracite." *Ind and Eng Chem* 27:944-8, Ag '35. il
Gives a technical description of a new furnace for using anthracite.

6484. Landau, D. "Coal selection, capacity, checking, and installation hints for small heating stokers." *Heat and Ven* 31:46-8, O '34. diag, tables

Says that the dominant characteristics which determine the fitness of a coal for stoker application are high fusion ash and absence of coking. Specific coals are discussed.

6485. Magg, J. M. "Chicago's new schools are air conditioned." *Sch Mgt* 3-4:134, Mr '35. il

Describes the air conditioning systems in the new Chicago schools.

6486. Midgley, Thomas, Jr. "Synthetic weather." *Ind and Eng Chem* 27:1005-9, S '35. il, table, diag

Discusses methods of air-conditioning, their advantages and disadvantages.

6487. *Nation's Schools.* "Rules for economical heating." *Nation's Sch* 16:51, S '35

Contains suggestions for the reduction of heating costs.

6488. "What it costs to overheat." *Nation's Sch* 16:64, N '35

Says that overheated rooms are unhealthful and very expensive.

6489. Park, W. M. "Notes on underfeed stocker operation." *Heat and Ven* 32:55-6, Ag '35. il

Discusses underfeed stokers with regard to the training of operators, the fuel used, the addition of moisture to the fuel, the inspection service, and the distribution of air.

6490. Partridge, Ruth C., and MacLean, D. L. "Determination of the comfort zone for school children." *J Ind Hygiene and Toxicology* 17:66-71, Mr '35. diag

Reports a study of the temperature comfort zone for school children.

6491. Pykoski, Conrad. "Inspection and rating of public school engineering service." *Nat Assn Pub Sch Bus Officials* 24:205, 1935. charts

Describes proper care of boiler room and the storage of unused materials.

6492. *Review of Educational Research.* "Heating, ventilation, and sanitation in school buildings." *R Educ Res* 5:344-61, O '35

Summarizes studies on heating, ventilation, lighting, and sanitation. References for further study are listed.

6493. Riesbeck, E. W. "A gravity vacuum heating trouble shooter's report." *Plumbing and Heat Trade J* 97:63-4, N '34. diag

Describes a faulty heating system in a school and church. Indicates the bad points.

6494. Robb, John M. "Air conditioning and the chimney action of school buildings." *Am Sch Bd J* 90:23-4, 77, Ja '35

Discusses the fundamental problem, that of chimney action, in the air conditioning of school buildings.

6495. Scanlan, Chester J., and Jordan, R. V. "Modernizing school heating and ventilating systems." *Heat and Ven* 32:42, O '35

Discusses the opportunity of improving school heating and ventilating systems. Describes the change in the heating system at the Central Grade School, Centralia, Illinois.

6496. *School Management.* "Economics in burning oil." *Sch Mgt* 3-4:16, S-O '34

Discusses the use and cost of oil burners for heating to replace coal firing.

6497. Seiter, J. Earl. "How to reduce your heating costs." *Heat and Ven* 32:44-6, Ag '35. il, table, chart
Discusses methods of reducing the heating costs for a building.

6498. "General rules for economical heating." *Heat and Ven* 32:39, N '35
Lists rules or suggestions for the economical heating of a building.

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TOILETS AND PLUMBING

6499. Friton, Ernest T. "Plumbing specifications for schools." *Sch Executives M* 55:60-1, 67, O '35. plans
Points out the main plumbing essentials as they occur in the average school.

6500. Frommelt, Horace A. "Is the schoolhouse plumbing safe?" *Am Sch Bd J* 90:21, 81, My '35. il, diag
Cites the danger of amoebic dysentery in our schools and gives several suggestions for good as well as modern plumbing.

6501. Geren, Preston M. "Accessory equipment in toilet rooms." *Sch Executives M* 55:19, 29, S '35. il
Suggests necessary equipment for rest rooms in today's schools.

6502. *Nation's Schools.* "Before installing plumbing fixtures." *Nation's Sch* 15:60, Ja '35
States that plumbing fixtures can and should be seen in operation before they are installed.

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THE WATER SUPPLY AND SEWAGE DISPOSAL

6503. *School Management.* "New drinking fountain code is approved." *Sch Mgt* 5-6:62, O '35
Lists specifications for drinking fountains as approved by the U.S. Department of Labor.

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LIGHTING, NATURAL AND ARTIFICIAL, AND SPECIAL ELECTRICAL EQUIPMENT

6504. Atwater, D. W. "Scientific lighting of the schoolroom." *Nat Assn Pub Sch Bus Officials* 23:251-7, 1934
Emphasizes importance of supplying classrooms with sufficient light and tells how this may be best accomplished.

6505. Dates, Henry B. "Industrial and school lighting." *Illum Eng Soc Transac* 29:866-77, D '34. diag, table
Summarizes the results of a survey of lighting conditions in sight-saving classrooms and gives data on the influence of various levels of illumination on the interest, attention, and well-being of students and teachers.

6506. "Light—the connecting link between the eye and education." *Am Sch and Univ* 7:224-6, 1935. il
Says that the tremendous effect of proper lighting on education necessitates a stress on good lighting for the classroom. Standards of lighting which are approved by the American Standards Association and the American Institute of Architects are given. Proper lighting for libraries is especially stressed.

6507. *Electrical World.* "Try, then buy, works for school lighting." (ed) *Elec W* 105:1504, Je 8, '35
Advocates trial installations of complete and adequate lighting systems in key rooms of school buildings.

6508. "Light study course for school use." *Elec W* 105:2702, N 9, '35
Presents a course in the study of light for school use as part of a broad educational plan for the conservation of eyesight among school children.

6509. Francisco, Sherman V. "New ideas in school lighting." *Sch Executives M* 54:280, 285, My '35. il
Describes newer trends in natural and artificial lighting. The photoelectric cell and automatic light control are discussed.

6510. Hathaway, Winifred. "Lighting the rural school." *Pub Health Nursing* 27:453-6, S '35. il. Summarized in *Nation's Sch* 16:50, N '35
Discusses ideal illumination, the control of light, and the problems of artificial lighting in rural schools.

6511. *Illuminating Engineering Society Transactions.* "Board of Education, School Administration Building." *Illum Eng Soc Transac* 29:168, Mr '34. il
Describes briefly the lighting and fixtures used in a Cleveland, Ohio, high school auditorium.

6512. "Special-purpose lighting system helps pupils 'see' what teacher says." *Illum Eng Soc Transac* 30:242, Mr '35
Tells of the newest use for artificial illumination—better light for lip reading.

6513. Johnston, H. L. "Better school lighting pays." *Elec W* 104:1078, D 8, '34. graphs
Presents the results of an experiment of the effect of a well-lighted room upon school work.

6514. *Nation's Schools.* "Light absorption of colors." *Nation's Sch* 14:49, O '34
Charts the amount of light absorbed by various colors.

6515. "Proper illumination for schools." *Nation's Sch* 14:56, D '34. charts
Gives both recommended and minimum foot candles found necessary in the various parts of school buildings and gymnasiums according to data worked out by the Hygrade Sylvania Corporation in Salem, Massachusetts.

6516. "How lighting affects color in interiors." *Nation's Sch* 16:46, Jl '35
Recommends consideration of the emotional qualities and decorative aspects of color as well as the reflection values.

6517. *School Management.* "New schools meet lighting standards." *Sch Mgt* 5-6:62, O '35
Gives, in terms of foot candles, the lighting standards recommended for school rooms.

6518. Sturrock, Walter. "Better lighting in school buildings." *Sch Executives M* 55:97-9, 113, N '35. il
Gives a report of an investigation in Mt. Lebanon, Pennsylvania, which indicated a 28 per cent increase in achievement for pupils in well-lighted rooms as compared to those in poorly-lighted ones. Discusses sight-saving classrooms in Cleveland, Ohio.

6519. Sturrock, Walter, and Staley, Karl. "Sight-saving in classrooms adopted by many schools." *Elec W* 104:666, O 13, '34. il
Discusses school lighting and facilities for partially blind children.

6520. Uhler, William P., Jr. "The eyes have it." *Nation's Sch* 15:53-4, My '35. il
Urges that rules for the conservation of eyesight be rigidly followed.

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6105	6289	6373	6554

CLEANING FACILITIES AND JANITOR'S EQUIPMENT

6521. Broady, K. O.; Ireland, C. J.; and Miller, E. L. *A handbook for school custodians.* Univ. of Nebraska, Educ Monograph no. 4, Lincoln, 1934. 82 p.
Gives a detailed discussion on the maintenance of school plants and on janitorial equipment.

6522. Cook, Samuel A. "The allocation of janitorial man-power to school buildings." *Am Sch Bd J* 91:27-9, 69, Ag '35. tables
Presents a detailed discussion of plant operation and caretakers' duties and standards.

6523. Eyman, R. M. "A co-operative plan for selecting and purchasing school supplies." *Am Sch Bd J* 91:39-40, Ag '35. tables
Suggests close cooperation of the school executive with the teachers, the janitors, and others who use supplies, in order to reduce the cost of supplies. The system used by the Fairfield County Schools, Lancaster, Ohio, is described.

6524. Flikeid, Jens. "Testing public school janitorial materials and supplies." *Nat Assn Pub Sch Bus Officials* 24:253-60, 1935
Cites need of good testing procedures to obtain standard efficient janitorial tools. Also gives list of materials for janitors.

6525. Grabarkiewicz, K. P. "The custodian and his work schedule." *Nation's Sch* 16:51-3, N '35. chart
Analyzes the duties of the custodian and the many factors which may affect the time required for these duties.

6526. Lamb, Alfred C. "Standardization and distribution of custodial supplies." *Am Sch Bd J* 91:20, 73, Jl '35
Suggests methods of standardization and distribution of many custodial supplies which make for economy.

6527. Linn, H. H. "The janitor supply racket." *Sch Executives M* 55:108-10, 115, 119, N '35. Also in *Nat Assn Pub Sch Bus Officials* 24:92-101, 1935
Makes specific charges against the janitor supply industry.

6528. "Economy in janitor supplies and equipment." *Am Sch and Univ* 7:128-31, 1935
Enumerates the real economy in using good equipment, gives instructions as to the buying and use of certain supplies, and gives reliable sources for information on supplies and equipment.

6529. *Nation's Schools.* "Selecting a school custodian." *Nation's Sch* 16:58, S '35
Says that the selection of a school custodian is as important as the selection of a teacher.

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FIRE PROTECTION

6530. *American School Board Journal.* "Fire prevention and safety for schoolhouses." (ed) *Am Sch Bd J* 91:42, O '35
Makes a number of recommendations on how to preserve school property from fire loss.

6531. Fleming, T. Alfred. "Fire safeguards in the school building." *Safety Educ* 14:27-8, 42, O '34
Discusses the necessity for automatic control and structural fire defence, fire fighting equipment, etc. Lists fire prevention measures.

6532. "The schools and fire protection." *Nat Assn Pub Sch Bus Officials* 23:121-8, 1934
Cites factors that must be considered in the construction and maintenance of school buildings to prevent fire hazards.

6533. "Self-inspection of buildings for fire protection." *Am Sch and Univ* 7:137-9, 1935. charts
Points out the necessity of self-inspection and includes a self-inspection blank to be filled out once a month.

6534. Fowler, E. W. "Protecting air conditioning and ventilating systems against fire hazards." *Heat and Ven* 32:26-7, Je '35
Makes suggestions for installing air-conditioning and ventilation systems so that fire hazards are minimized.

6535. Frostic, Fred W. "Eternal vigilance, automatic devices will reduce fire hazards." *Nation's Sch* 14:61-2, N '34. il
Outlines a program for reducing fire hazards and includes a description of a practical automatic sprinkler head.

6536. Guth, Alexander C. "What schoolmen should know about lightning rods." *Am Sch Bd J* 91:40, 85, S '35
Discusses features of the lightning rod and points out the value of rods if they are properly installed.

6537. Harte, James A. "Are your extinguishers ready?" *Nat Safety News* 30:19-21, 66-7, N '34. diag
Discusses various types of hand fire extinguishers.

6538. Holbrook, Marion. "School budgets that went up in smoke." *Safety Educ* 15:34-5, O '35. il
Mentions danger points in old school buildings which have caused fire losses in various schools.

6539. Kearney, Paul W. "Making the school fire-safe." *Am Sch Bd J* 90:28-9, Mr '35. tables
Cites causes of school fires and suggests ways of preventing losses by fire.

6540. *Manufacturers Record.* "Revamped systems for fire protection." *Manufacturers Rec* 104:68, Mr '35. il
Comments on automatic outdoor sprinkler systems.

6541. Miller, Rudolph P. "The inadequacy of fire escapes." *Nat Safety News* 32:17-19, 56-7, Je '35
Describes types of fire escapes and various hazards connected with their use.

6542. *Nation's Schools.* "Care of fire equipment." *Nation's Sch* 15:53, Je '35
States that annual recharging of foam, soda-acid, and calcium chloride fire extinguishers is essential.

6543. *School Management.* "Safeguards against fire." *Sch Mgt* 3-4:64, D '34
Mentions building requirements which safeguard against fire.

6544. Viles, N. E. "Protection is needed against fire loss." *Nation's Sch* 16:49-50, Jl '35. il
Gives several methods of protection against loss of property by fire but says that prevention is the best protection.

6545. Werner, J. C. "What price fire insurance!" *Nation's Sch* 16:50-1, D '35. tables
Discusses the expenditures for fire insurance in the school district of Coraopolis, Pennsylvania, and compares the experience of the state as a whole with that of other states.

6546. White, C. B. "There's an extinguisher for every fire risk." *Nat Safety News* 32:27-8, 68-9, D '35
Reviews some of the modern fire fighting appliances and discusses some of the hazards of specific types of fires such as a carbonbisulphide fire, etc.

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LAUNDRY

6547. Cox, William H. "Alameda high school laundry proves a money-saver." *Nation's Sch* 15:52-3, Je '35. il
Tells how this California school effected marked savings by the installation of its own laundry equipment.

6548. Hitch, Earle. "Washing and cleaning for a military school." *Nation's Sch* 16:42-4, Ag '35. il
Advocates the operation of a school laundry and dry cleaning service.

6549. McCunn, Drummond J. "Pasadena schools cut laundry costs." *Nation's Sch* 16:48-50, N '35. il, graph, chart
Describes the laundry established by the Pasadena city schools and discusses the saving brought about.

6550. *Nation's Schools.* "Search for economy leads to school laundry." *Nation's Sch* 15:49-51, Ja '35
Recommends the establishment of laundries in schools having 300 pounds or upward of laundry per week.

XIII. Interior Decoration

6551. *American Childhood.* "Schoolroom decoration a problem in art." *Am Childh* 20:7-9, Mr '35
Cites the importance of a well-decorated schoolroom and suggests many ways of expressing art and beauty in the schoolroom.

6552. *Nation's Schools.* "Its walls tell school story." *Nation's Sch* 15:50-1, Je '35. il

Describes the Wilbraham Academy in Wilbraham, Massachusetts, where the walls are inscribed with murals that tell the history of the school.

6553. Prentice, T. Merrill. "The use of color in the remodeling and renovating of school buildings." *Am Sch and Univ* 7:131-3, 1935. il

Discusses kinds of colors which should be used for classrooms, special rooms, auditoriums, and gymnasiums. Visibility and the effect on studying are the two main factors considered.

6554. *School Management.* "How lighting affects colors." *Sch Mgt* 5-6:22, S '35

Discusses the choice of color scheme for a room and tells how the lighting should affect this choice.

6555. Smith, Howard Leland. "Color as applied to the modern high school." *Nation's Sch* 15:53-5, Ap '35. il

Discusses the use of color in beautifying school interiors.

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XIV. Standardization of School Buildings and Equipment

6556. *American School Board Journal.* "How schools buy supplies and equipment in the depression years." *Am Sch Bd J* 89:56, D '34

Lists four questions pertaining to the buying of school supplies with limited funds and gives answers from a series of larger and medium-sized cities.

6557. Duemke, B. B. "Public-school building modernization combining construction with instruction." *Am Sch Bd J* 91:34, 68, 71, D '35; also in *Nat Assn Pub Sch Bus Officials* 24:231-5, 1935

Suggests that school buildings can and should be modernized and standardized not only during the summer months, but also during the school year.

6558. Henzlik, F. E. "Taking the school inventory, and accounting for school supplies in small schools." *Am Sch and Univ* 7:125-8, 1935. fig

Points out the significance of carrying a school inventory, explains a method of taking inventory, tells how to carry depreciation, and explains a method of accounting for supplies.

6559. Pruett, Haskell. *School plant requirements for standardized elementary and accredited high schools.* Peabody Col Book Store, Nashville, Tenn., 1934. 202 p.

Discusses school plant standards, their basic requirements, evaluation, practices in administering, and the relationships of accrediting agencies to other governmental agencies in the administration of the standards of the school plant.

6560. Stouffer, S. M. "High standards for solvent municipalities." *Am Sch and Univ* 7:23-4, 1935
Maintains that standards for physical accommodations and location of school buildings should anticipate future needs. Points out the importance of scheduling the repair and maintenance program.

6561. Strayer, George Drayton. "Minimum standards which state aid should assure." *Am Sch and Univ* 7:21-2, 1935
Says that the minimum standards of education should meet with present requirements and should keep pace with changing conditions. Proposes methods of meeting the requirements and tells how to finance the program.

6562. Walsh, H. Vandervoort. "Getting a fresh viewpoint on school planning." *Am Sch and Univ* 7:47-52, 1935. plans
Condemns standardization of school facilities or school building planning. Consists mainly of sketches which illustrate variations of school plans.

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XV. Remodeled Buildings and Additions

6563. *American School Board Journal.* "Remodeling a schoolhouse." *Am Sch Bd J* 91:35, Jl '35. il, plans
Gives a brief description of the remodeled Haydenville School, Williamsburg, Massachusetts.

6564. Arnold, Ralph. "Modernizing the Sioux City schools." *Arch Rec* 77:49-56, Ja '35. il, charts
Describes the modernization project carried on in Sioux City, Iowa, from 1927 to 1933.

6565. Carr, William G. "Opportunities in school modernization." *Arch Rec* 78:201-4, S '35. charts
Reports a survey of school conditions and prospects in future school construction.

6566. Malcolm, David J. "New school-houses from old." *Am Sch Bd J* 89:35-6, 69, O '34. il, plans
Tells of the remodeling of 10 antiquated rural school buildings in the state of Massachusetts.

6567. Sexson, John A. "Rehabilitation of school buildings." *Sch Executives M* 55:128-30, 155, D '35. il
Tells how California rebuilds her schools to conform to new standards of safety against earthquake.

6568. Warren, Julius E., and Pearson, Haydn. "Yesterday's elementary school becomes today's junior high." *Nation's Sch* 16:42-6, Jl '35. il, plans
Tells of the remodeling of the Bigelow School as part of a long-term building program in Newton, Massachusetts.

6569. Wilson, W. K. "Techniques for planning small high-school buildings." *Am Sch Bd J* 89:38, 63, D '34. tables
Describes the use of techniques and measures in planning the extension of an existing building where an increased enrollment or an enriched educational program demands extension.

6570. Zeliff, L. A. "Stanberry acquires a modern school plant by remodeling." *Am Sch Bd J* 91:33-5, S '35. il, plans
Tells how the Stanberry School District of Stanberry, Missouri, overcame obstacles and remodeled its high and grade school building, making it an up-to-date school plant.

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XVI. The Maintenance and Operation of Buildings and Equipment

6571. *American School Board Journal.* "School plants and the maintenance problem." (ed) *Am Sch Bd J* 91:40, Jl '35
Contends that budget balancing at the expense of building and repair programs has proved unwise and expensive.

6572. Brown, Ronald. "Exterior maintenance of school buildings." *Am Sch Bd J* 91:27-8, Jl '35
Discusses exterior maintenance from the standpoint of economy as well as of efficiency. Cites the importance of painting, repointing masonry, repairing roofs, caulking wall openings, dampproofing walls, and other minor details of maintenance.

6573. Demere, C. "Preservatives and antitermite protection of timber." *Ind and Eng Chem* 27:1303-5, N '35. il
Lists three new preservatives for wood and tells how to apply them.

6574. Depew, Harlan A. "Influence of pigment on paint film weathering." *Ind and Eng Chem* 27:905-8, Ag '35
Gives a technical discussion of the effect of the kind of pigment on paint film weathering.

6575. Frommelt, Horace A. "Is the school building watertight?" *Am Sch Bd J* 91:36, 75, O '35
Presents the known facts concerning causes and remedies of infiltration.

6576. Joyner, Schuyler C. "Reducing school operating costs." *Am Sch Bd J* 90:27-8, 83, My '35; 31-2, Je '35
Suggests ways of reducing school operating costs by reducing the expenses of janitor supplies and equipment, selecting high-type personnel, giving specific directions for work, and securing efficient heating. Also suggests economies in the use of gas, water, electricity, telephone, and laundry service in the schools.

6577. Laferriere, Joseph N. "Modern warfare on roaches." *Nation's Sch* 16:51-3, D '35.
States that most of the defects in methods of cockroach control come from inadequate inspection rather than from ineffective insecticides and gives information on and formulas for good insecticides.

6578. Linn, Henry H. *Practical school economies.* Columbia Univ, Teach Col, Bur of Publ, New York, 1934. 461 p.
Comments on economies in plant operation and maintenance.

6579. Marshall, John; Iliff, J. W.; and Young, H. R. "House paints." *Ind and Eng Chem* 27:147-52, F '35. il, charts
Presents a technical discussion of the effect of climate, wood types, and priming practices on the durability of house paint.

6580. Meller, H. B., and Sisson, L. B. "Effects of smoke on building materials." *Ind and Eng Chem* 27:1309-11, N '35
Makes suggestions for combating damaging effects of smoke on building materials.

6581. *Nation's Schools.* "Operating costs can be reduced by modernization." *Nation's Sch* 14:66, O '34
Suggests several methods of cutting operating expenses through modernization.

6582. "Watch painting jobs closely." *Nation's Sch* 15:51, Ja '35
Urges a rigid inspection program of painting jobs.

6583. "Mixing and applying paint." *Nation's Sch* 15:60, F '35
Gives several simple facts on the mixing and application of paint.

6584. "Suggestion to painters." *Nation's Sch* 16:58, S '35
Recommends placing a thin coat of soap on glass, metal, or tile that adjoins surfaces to be painted.

6585. Nelson, Harley A. "Metal priming paints." *Ind and Eng Chem* 27:35-41, Ja '35. tables
Gives theories of corrosion and discusses (rather technically) priming paints for metals.

6586. Pykoski, Conrad. "When it's wash day for the walls." *Nation's Sch* 16:54-5, 64, N '35
Reports an experiment on the cleaning of walls that was conducted in the Plant Administration Building in Minneapolis, Minnesota.

6587. *Review of Educational Research.* "Financial economy and school business." *R Educ Res* 5:151-7, Ap '35
Reports studies of the management of school plant, administration of supplies and equipment, and transportation of pupils.

6588. "Operation and care of the school plant." *R Educ Res* 5:378-82, O '35. tables
Discusses the problems of school plant operation, janitorial service, methods, and operating costs.

6589. Reynolds, T. W. "Care and maintenance of schoolhouse heating and ventilating systems." *Am Sch Bd J* 91:32, 64, 66-8, 70, Jl '35
Presents a lengthy discussion on the care and maintenance of heating and ventilating equipment.

6590. *School Executives Magazine.* "Criticism of education." *Sch Executives M* 54:114-15, D '34
Gives editorial comment on various phases of the building and maintenance of the school plant.

6591. Sweetser, L. H. "School transportation costs cut." *Am Sch Bd J* 90:50, 52, My '35
Tells how the Burley Independent School District in southern Idaho reduced the cost of pupil transportation.

6592. Womrath, George F. "The organization of a department for the maintenance and operation of public school buildings." *Am Sch and Univ* 6:122-4, 1933
Suggests the use of an organization chart to be studied in relation to the list of rules and regulations.

6593. "Economic and efficient maintenance of the school plant." *Nat Assn Pub Sch Bus Officials* 23:239-42, 1934
Suggests kinds of equipment that give efficient service.

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XVII. Insurance and Depreciation

6594. *American School Board Journal.* "Why Cincinnati carries its own school-building insurance." *Am Sch Bd J* 90:40, Mr '35
Summarizes the experience of Cincinnati in carrying its own insurance on the school buildings of the school district.

6595. Holy, T. C. "State insurance for school buildings." *Nation's Sch* 16:60, 62, O '35. charts
Considers school plant insurance primarily from the point of view of the state carrying its own insurance.

6596. *Review of Educational Research.* "Public school plant insurance." *R Educ Res* 5:370-7, O '35. tables
Reviews various trends in school plant insurance rates from 1932 to 1935.

6597. *School Management.* "Sources of penalties in fire insurance." *Sch Mgt* 5-6:86, N '35
Lists causes for high fire insurance rates.

6598. Viles, N. E. "Sources of penalties in fire insurance." *Nation's Sch* 16:55-7, Ag '35. il
Says that rating sheets for more than 500 school buildings show the average cost due to fire hazard penalties is $66 a year over the base insurance rate.

6599. "Reducing insurance costs." *Nation's Sch* 16:55-7, S '35
Suggests possible ways of reducing insurance expenditures.

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XVIII. The Teacher's Home

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XIX. Open-Air Schools

6600. *American Architect.* "The Fresh Air School, Suresnes, France." *Am Arch* 147:34-7, N '35. il, plans
Describes briefly the Fresh Air School at Suresnes, France.

6601. "The Open Air School." *Am Arch* 147:38-9, N '35. il, plans
Gives the purpose and a brief description of the construction of the Open Air School at Newark, New Jersey.

6602. Wallin, J. E. Wallace. "The support of fresh-air classes during the economic depression." *El Sch J* 35:597-605, Ap '35. tables
Reports a survey on the support of fresh-air classes in the United States.

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XXI. Schoolhouses of Other Countries*

6603. *Architectural Review.* "Scotland Street School, Glasgow." *Arch R* 77:24, Ja '35. il
Presents the architect's original perspective for Scotland Street School in Glasgow, Scotland.

6604. "St. Swithun's School, Winchester." *Arch R* 77:158-9, Ap '35. il, plans
Describes St. Swithun's School in Winchester, England.

6605. "New work at Stowe School." *Arch R* 77:255-7, Je '35. il, plans
Describes Walpole House, the new boarding-house at Stowe School, Buckinghamshire, England.

6606. Greenwood, Mary A. "The Olympia of the north." *J Health and Phys Educ* 5:10-11, 42, N '34. il
Describes the Niels Bukh School at Ollerup, Denmark.

6607. *Hygeia.* "Going to school in other lands." *Hygeia* 12:895, O '34. il
Presents illustrations of schools in Mexico, Canada, Kashmir, and England.

6608. Meksin, Jacob. "Children's museums and exhibition work in Soviet Russia." (Trans. by Thomas Woody.) *Educ Outlook* 9:42-57, N '34
Describes the content, the purposes, and the results being obtained in the children's museums of Soviet Russia.

6609. *School Management.* "Building details of a small high school." *Sch Mgt* 3-4:208, Je '35
Describes a new high school in Modoc, Canada, built at a cost of $43,873.

6610. "Sunswept classroom a new Paris style." *Sch Mgt* 5-6:85, N '35. il
Gives an illustration and short description of a classroom in Suresnes, France, which has collapsible glass walls.

6611. Spencer, F. H. "Better schools for fewer pupils." *Times Educ Supplement* 1030:25, Ja 26, '35
Discusses the need in England for better, more modern school plants to replace worn-out ones.

6612. *Times Educational Supplement.* "Building activities." *Times Educ Supplement* 1015:346, O 13, '34
Says that up to 1933 there have been built in Ulster, Ireland, 85 new elementary schools and nearly 300 buildings have been remodelled.

* No references on the portable schoolhouse (Division XX of the bibliography) were found in the years covered in the present bulletin.

6613. "A ten-year plan." *Times Educ Supplement* 1027:5, Ja 5, '35
Offers suggestions for a 10-year plan for elementary school building in England.

6614. "A modern school." *Times Educ Supplement* 1032:44, F 9, '35
Describes a proposed elementary school in Leeds, England. Claims that in many respects the building will be revolutionary in character.

6615. "Ugly schools." *Times Educ Supplement* 1042:130, Ap 20, '35
Describes some of the older schools in London which cannot be replaced by up-to-date schools because many of the building loans have not yet been paid off.

6616. "Brighter and cleaner schools wanted." *Times Educ Supplement* 1044:141, My 4, '35
Sets forth a deplorable situation in regard to cleanliness in the public elementary schools of England. Points out the absurdity of teaching hygiene in such surroundings.

6617. "Ugly London schools." *Times Educ Supplement* 1069:377, O 26, '35
Suggests that open-air schools be built just outside of London to replace the ugly and outmoded buildings in the slum districts.

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XXII. Plans, Illustrations, and Descriptions of Existing, Proposed, and Model School Buildings

6618. *American School Board Journal.* "Recent school-building work of Tooker and Marsh, Architects." *Am Sch Bd J* 90:33-40, F '35. il, plans
Gives a description of several schools in New York which are the work of Tooker and Marsh of New York City. Included are Port Chester, New York, Senior High School; Pleasantville High School; Oyster Bay Grade and High School; Manhasset Valley School; Daniel Webster Grade School, New Rochelle, New York; and the Grade School at Bayville, Long Island, New York.

6619. "Jefferson School, St. Cloud, Minnesota." *Am Sch Bd J* 90:40, Je '35. il, plans
Gives pictures and plans of the Jefferson School in St. Cloud.

6620. *Architectural Record.* "Indian schools." *Arch Rec* 77:331, My '35. il
Describes briefly the architecture used in the construction of Indian schools on the Navajo Indian Reservation in Arizona.

6621. "Boys' school." *Arch Rec* 78:192-5, S '35. il, plans
Tells of the California Military Academy at Baldwin Hills, California. Contains pictures and descriptions of open-air classrooms and the dormitory.

6622. Brown, Hugh W., Jr. "A notable one-story school building." *Am Sch Bd J* 90:39-40, Mr '35. il, diag
Describes the Jefferson School, Shawnee, Oklahoma, the first PWA school building project financed by the government in the state of Oklahoma. The $60,000 building accommodates 400 pupils.

6623. Floyd, E. B. "The Bethany Community School." *Am Sch Bd J* 91:39-40, S '35. il, plan
Describes the Bethany Community School, Bethany, Connecticut, which was built at a cost of $35,000 and which replaced six one-room schoolhouses in the community.

6624. Hughes, W. Marshall. "Recent rural and borough school buildings in Pennsylvania." *Am Sch Bd J* 90:33-7, My '35. il, plans
Presents pictures, diagrams, and descriptions of the Royersford Junior-Senior High School, Perry Township High School, Lower Pottsgrove Township School, and Upper Providence Township Consolidated School.

6625. Johnson, George R. "St Louis opens ninth-grade centers." *Am Sch Bd J* 89:44, D '34. diag
States that the St. Louis problem of overcrowded high schools was solved by restoring all seventh and eighth grade children to the regular elementary schools and then opening 21 ninth grade centers.

6626. *Journal of Education.* "Nineteen new schools built in Alaska, thanks to PWA." *J Educ* 117:544, D 3, '34
States that a PWA program has provided 19 new schoolhouses with teachers' residences in the territory of Alaska.

6627. Slade, J. S. "Punahou school in Hawaii nears century mark." *Nation's Sch* 16:40-1, Ag '35. il
Describes Punahou, the oldest private school in the United States west of the Rocky Mountains.

6628. Weglein, David E. "Baltimore's building program for colored pupils." *Nation's Sch* 15:44-9, Je '35. il
Discusses the building program for colored children in Baltimore.

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FOUR-YEAR AND SENIOR HIGH SCHOOL BUILDINGS

6629. *American School Board Journal.* "The Lakeland sod high school, in Ainsworth, Brown County, Nebraska." *Am Sch Bd J* 90:62, F '35
Describes briefly a small high school built of sod. The building measures 20 by 30 feet and has an enrollment of 10 pupils.

6630. "The Jeremiah Burke Memorial High School." *Am Sch Bd J* 91:36-7, Jl '35. il, plans
Describes the Jeremiah E. Burke High School for Girls, Boston, Massachusetts, which has an enrollment of 1,750 pupils.

6631. "The high-school building at Pine Island, Minnesota." *Am Sch Bd J* 91:35, 71, D '35. il, plans
Describes the high school building at Pine Island, Minnesota, completed in September, 1934.

6632. Challman, Samuel A. "Granite Falls school building achieves completeness and flexibility." *Am Sch Bd J* 90:37-8, 79, Ja '35. il, plans
Describes the new fireproof high school at Granite Falls, Minnesota, a typical consolidated school in a small urban community.

6633. Dryer, Harwood Brownell. "The Brockport Central High School." *Am Sch Bd J* 90:33-9, 77, Je '35. il, plans
Gives a detailed description of the Brockport Central High School, Brockport, New York.

6634. Higgins, Thomas J. "New Lane Technical High School, Chicago, Illinois." *Am Sch Bd J* 90:25-8, Ja '35. il, diag, plans
Gives a detailed description of the new Lane Technical High School, which was completed in 1934.

6635. "Steinmetz High School, Chicago." *Am Sch Bd J* 90:33, Mr '35. il, plans
Describes the facilities and layout of the Steinmetz High School in the northwest section of Chicago.

6636. Logan, John H. "The Weequahic High School in Newark." *Am Sch and Univ* 7:62-5, 1935. il, plans
Describes the Weequahic High School in Newark, New Jersey.

6637. McBride, William E. "A teacher's appreciation of the new Steinmetz High School." *Am Sch Bd J* 90:34-5, 76, Mr '35. il, plans
Describes features of the new Steinmetz High School which make it, in the teacher's estimation, the ideal school.

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JUNIOR-SENIOR HIGH SCHOOL BUILDINGS

6638. *American School Board Journal.* "A centralized village junior-senior high school." *Am Sch Bd J* 89:33-4, 62, O '34. il, plans
Describes the junior-senior high school building at Clinton, New York, which serves the village of Clinton and surrounding rural territory.

6639. Jones, Samuel D. "Senior-junior high school, Second and Lee Streets, Louisville, Kentucky." *Am Sch Bd J* 90:29-32, Ja '35. il, plans
Describes the $717,060 junior-senior high school which was built at a cost of 17.6 cents a cubic foot.

6640. Theisen, W. W. "The Rufus King High School." *Am Sch Bd J* 90:44-8, Ja '35. il, plans
Presents a lengthy description of the Rufus King High School, Milwaukee, Wisconsin, a six-year high school built to serve 2,000 students. The building cost 28.6 cents per cubic foot.

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JUNIOR HIGH SCHOOL BUILDINGS

6641. *American School Board Journal.* "The Franklin Junior High School, Brainerd, Minnesota." *Am Sch Bd J* 91:38-9, Ag '35. il, plans
Describes the Franklin Junior High School, which was built for 600 pupils at a cost of approximately $420 per pupil.

6642. "The Taft Junior High School." *Am Sch Bd J* 91:33-4, N '35. il, plans
Describes the Taft Junior High School, built with federal aid, in the northeast section of Washington, D. C.

6643. *Architectural Record.* "High school." *Arch Rec* 78:196-200, S '35. il, plans
Describes in detail the Patterson Park Junior High School at Baltimore, Maryland.

6644. Haiston, F. M. "The Pottstown Junior High School." *Am Sch Bd J* 89:36-7, 65, D '34. il, plans
Presents the education program and aims of the Pottstown Junior High School, Pottstown, Pennsylvania.

6645. Ittner, William B., and Miller, Fred B. "Junior high school at Normandy, Missouri." *Am Sch Bd J* 90:41-2, Ja '35. plans
Describes briefly the Normandy junior high school, which was planned for 1,000 pupils at a total cost of $216,000.

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ELEMENTARY SCHOOL BUILDINGS

6646. *American School Board Journal.* "Fitness distinguishes elementary school building." *Am Sch Bd J* 89:33-4, N '34. il, plans
Describes the interior and exterior of the Christian Park Grade School (No. 82) in Indianapolis, Indiana.

6647. "The primary school building at its best." *Am Sch Bd J* 90:39-40, Ap '35
Describes the Garfield School, St. Cloud, Minnesota, which was built at a cost of $191,211 to accommodate 420 pupils.

6648. "A small primary-school building for an inclusive school program." *Am Sch Bd J* 91:36-7, Ag '35. il, plans
Gives a description of the Arlington School, Lockland, Ohio, which has been planned to house a school organization consisting of a kindergarten and three primary grades.

6649. "An elementary school for a warm climate." *Am Sch Bd J* 91:35-6, S '35. il, plans
Gives a description of the Lew Wallace School, Albuquerque, New Mexico, built for 714 pupils at a total cost of $100,457.

6650. "A community grade-school building." *Am Sch Bd J* 91:37-8, N '35. il, plans, tables
Discusses the Harper Grade School at Harper, Kansas.

6651. Angus, Bruce W. "Finished hardware in schools." *Sch Executives M* 55:26-8, S '35. il
Sets up standards for selecting serviceable as well as attractive hardware.

6652. Davies, W. R.; Buck, Roland C.; and Hansen, Harold A. "The Nelson Dewey elementary school, Superior, Wisconsin." *Am Sch Bd J* 90:33-5, Ap '35. il, plans
Describes the new Nelson Dewey school which was constructed to meet the needs of 400 kindergarten, primary, and intermediate school children.

6653. Gillmore, Roy W. "The Rye consolidated school at Rye, New Hampshire." *Am Sch Bd J* 90:39-40, 65, Ja '35. il, plans
Describes the consolidation movement and the final consolidation of the schools at Rye, New Hampshire.

6654. Hamilton, Lorenzo, and Moseley, Nicholas. "Functionally designed building aids progressive school." *Am Sch Bd J* 91:33-5, Ag '35. il, plans

Describes the Hanover School, South Meriden, Connecticut, built for 220 elementary pupils.

6655. Larrick, Thomas. "The New York Street grade-school building." *Am Sch Bd J* 90:49, 73, Ja '35. il, plans

Gives a description of the one-story New York Street School, Lawrence, Kansas, constructed as a PWA project at a cost of $91,000.

6656. Meacham, Harry L. "A central school building on Cape Cod." *Am Sch Bd J* 91:36-7, D '35. il, plans

Discusses the Plympton School building in the town of Plympton, Massachusetts, which provides space for all the elementary pupils of the town, thus eliminating the district school buildings which were formerly in use.

6657. Prudden, Geneva. "The Florham Park School: its program, and the place it fills in the community." *Am Sch Bd J* 89:33-5, 63, D '34. il, plans

Discusses in detail the building program in Florham Park, New Jersey. The public school building was erected at a cost of $184,000.

6658. Rosenstengel, W. E. "The Robert E. Lee Elementary School, Columbia, Missouri." *Am Sch Bd J* 91:37-8, O '35. il, plans

Describes the Robert E. Lee Elementary School, which was built at a cost of $77,000 and arranged to accommodate 320 pupils.

6659. *School Management.* " 'Test tube' school is open." *Sch Mgt* 5-6:91, N '35. il

Gives an illustration and short description of a Corona Avenue elementary school classroom in Bell, California. It has a sliding door of steel and glass to allow pupils to move outside into the play yard to work.

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COMBINED ELEMENTARY AND HIGH SCHOOL BUILDINGS

6660. *American School Board Journal.* "Completeness distinguishes Enderlin Grade and High School." *Am Sch Bd J* 89:37-8, O '34. il, plans

Discusses the Enderlin Grade and High School in Enderlin, North Dakota, which was built very cheaply during the depression year of 1933.

6661. "Now let the earthquake come." *Am Sch Bd J* 90:21, Mr '35. il

Describes very briefly the annex to the Fillmore Junior Grammar School at Fillmore, California.

6662. "Lincoln School, Evansville, Indiana." *Am Sch Bd J* 90:36, Mr '35. il, plans

Contains pictures and diagrams of the Lincoln School for colored children erected in 1928 at a cost of $243,858.69.

6663. "The new Central School building at West Winfield, New York." *Am Sch Bd J* 90:37-8, 72, Ap '35. il, plans

Describes the plans and layout of the combined elementary-secondary school at West Winfield.

6664. Draper, Earle S. "The new TVA school at Norris, Tennessee." *Am Sch and Univ* 7:66-8, 1935. il, plans
Describes the new public school in the town of Norris, Tennessee.

6665. Estrich, John L. "A modern building for a complete school." *Am Sch Bd J* 91:33-4, 74, Jl '35. il, plans
Describes the Angola Grade and High School Building, Angola, Indiana, which accommodates 800 pupils. The building was completed in 1932 at a total cost of $207 per pupil.

6666. Haig, Quentin F. "The Westport Central School building." *Am Sch Bd J* 91:33-6, O '35. il, diag
Describes the Westport Central School, Westport, New York, built at a total cost of $185,000, to accommodate 500 pupils.

6667. Nichols, Galen H. "The Central School at Washingtonville, New York." *Am Sch Bd J* 89:37-9, 71, N '34. il, plans
Describes the new Central School, which was completed in 1934.

6668. An Observer. "The school at Norris, Tennessee." *Sch Executives M* 55:55, O '35. il
Tells how education and engineering science have kept pace in Norris, Tennessee.

ONE-, TWO-, THREE-, AND FOUR-ROOM RURAL SCHOOL BUILDINGS

6669. Holy, T. C., and Dieterich, H. C. "Rooms planned for multiple use feature a suburban school." *Nation's Sch* 14:44-9, O '34. il, plans
Describes a three-year high school in Bexley, Ohio.

6670. Hyden, A. F. "A progressive rural school." *Sch Executives M* 54:118, D '34
Tells how the building of the newest rural high school in Tulsa County, Oklahoma, was financed.

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GROUPS OF BUILDINGS REPRESENTATIVE OF CITIES, STATES, AND SECTIONS OF THE COUNTRY

6671. Bureau of School Service, University of Kentucky. *A survey of the school organization and school plant of Powell County, Kentucky.* Univ of Kentucky, Col of Educ, Bur of Sch Service, bul 8, no. 1, Lexington, S '35. 65 p., tables, fig
Includes a survey on the types and conditions of buildings and their equipment in Powell County.

6672. Harris, T. H. "The school buildings of Louisiana." *Sch Executives M* 55:20-1, S '35. il
Discusses 25 years of progress in school plant planning in Louisiana. States that the state department approves and specifies building materials for Louisiana.

6673. Strayer, G. D. *Centralizing tendencies in the administration of public education.* Columbia Univ, Teach Col, Contr to Educ no. 618, New York, 1934. 123 p.
Includes a discussion of the effect centralizing tendencies had on the construction of buildings in North Carolina and Maryland.

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